STEREO PRE AMPLIFER/TUNER

# C-B5/L

# SERVICE MANUAL

KENWOOD

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B51-4747-00(S) 4447

Knob
(K29-5805-14)

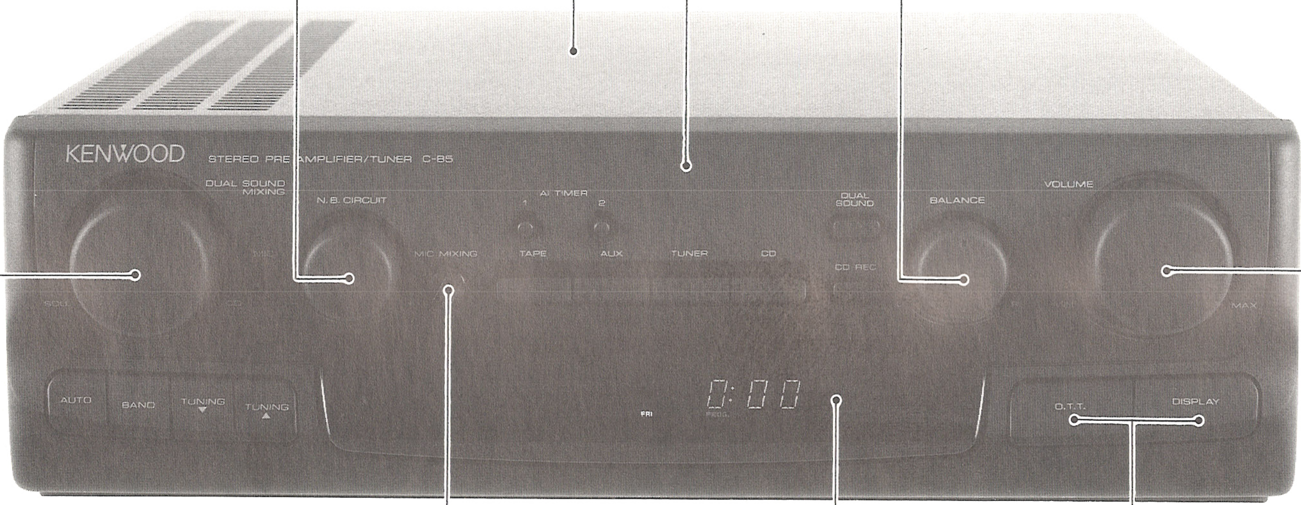
Knob
(K29-5795-04)

Metallic cabinet
(A01-2955-01): J
(A01-2963-01): S

Panel*
(A60- )

Knob
(K29-5795-04)

Knob
(K29-5764-03)

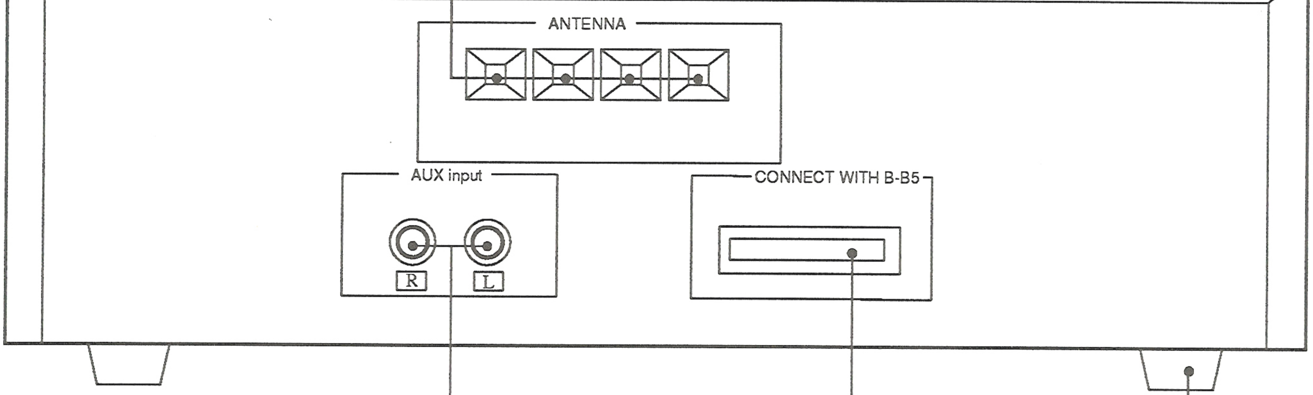

KENWOOD
STEREO PRE AMPLIFIER/TUNER C-B5
DUAL SOUND MIXING
N.B. CIRCUIT
AI TIMER
1
2
DUAL SOUND
BALANCE
VOLUME
MIC MIXING
TAPE
AUX
TUNER
CD
CD REC
MAX
AUTO
BAND
TUNING
TUNING
O.T.T.
DISPLAY

Knob
(K29-3741-04)

Front glass
(B10-1982-03): J
(B10-1996-03): S

Knob
(K29-5765-03)

Lock terminal board*
(E20- )


ANTENNA
AUX input
R
L
CONNECT WITH B-B5

Phono jack
(E63-0095-05)

Rectangular receptacle
(E58-0006-05)

Foot
(J02-0370-05)

* Refer to parts list on page 24.

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SPECIFICATIONS .............................. BACK COVER

**INSTRUCTION MANUAL**

| | | |
|---|---|---|
| B60-1251-00 | ENGLISH | |
| B60-1252-00 | FRENCH | P |
| B60-1253-00 | SPANISH | ME |
| B60-1254-00 | ARABIC | M |
| B60-1255-00 | CHINESE | M |
| B60-1256-00 | GERMAN | E |
| B60-1257-00 | DUTCH | E |
| B60-1258-00 | ITALIAN | E |

# REMOTE CONTROL UNIT

REMOTE CONTROL UINT (X94-1050-51)
BATTERY COVER (F07-0721-23)

**INPUT key**
Selects the source component to be reproduced.

**OFF key**
Cancels presence mode.

**PRESENCE key**
Turns on and selects the presence mode.

**SLEEP timer key**

**assette deck operation keys**
o control deck A, set the A/B switch to A. The ● and II keys are not effective with his position.)
o control deck B, set the A/B switch to B.

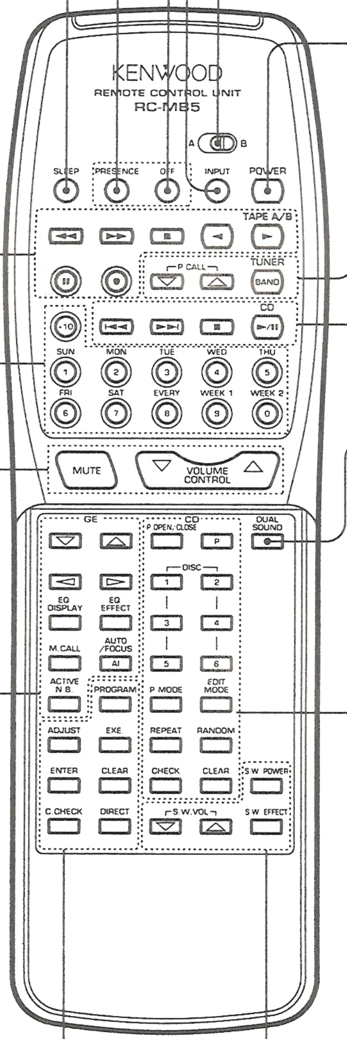
**umeric/day-of-the-week keys**
Vhen the CD input is selected, these keys unction as the numeric keys of the CD player. Vhen the TUNER input is selected, these keys unction as the numeric keys of the tuner. hese keys function as the day-of-the-week eys when making timer operation reservation.

**OLUME CONTROL keys**
hese keys adjust the volume. Operating hese keys rotates the VOLUME control knob n the main unit. During the rotation, the indiator on the knob blinks at a high rate.

**UTE key**
ress to interrupt sound temporarily.

**raphic equalizer operation keys**
▽ ◁▷ keys, EQ. DISPLAY key, Q.EFFECT key, M.CALL key, AI AUTO/OCUS key, ACTIVE N. B. key

**imer operation keys**
ROGRAM key, ADJUST key, EXE. key, NTER key, CLEAR key, C. CHECK key, DIECT key



**A/B switch**
Keys in the hatched sections can be used in two ways according to the setting of this switch.

**POWER key**

**Tuner operation keys**
BAND key, P.CALL key.

**CD player operation keys**
⏮ and ⏭ keys, ■ key, ►/II key.

**DUAL SOUND key**
Used to play in environmental sound mode.

**CD player operation keys**
P.OPEN/CLOSE key, DISC SELECTOR key(1 to 6,P), P.MODE key, EDIT MODE key, REPEAT key, RANDOM key, CHECK key, CLEAR key

**Super woofer operation keys**
S.W.POWER key, S.W.EFFECT key, S.W.VOL key

With the UD-501, the 1 to 6, P and P.OPEN/CLOSE keys are not effective.

# CIRCUIT DESCRIPTION

## 1. TEST MODE

### 1.1 KEY TEST BY MEANS OF THE MAIN UNIT

(1) Setting method

— Plug the power cord into the AC electrical outlet while pressing the CD KEY.

(2) Cancellation method

— The test mode set at the beginning is cancelled when the power cord is unplugged from the AC electrical outlet.

(3) Contents

① Automatic POWER ON

The POWER turns necessarily ON, and all functins are initialized when the power cord is plugged in the AC electrical outlet while pressing the CD KEY.

② ALL LIT mode

ALl FL and all LED light up without fail when the power cord is plugged into the AC electrical outlet while pressing the CD KEY. After that, the equipment switches to the ordinary indication mode when any key opf the main unit is operated.

③ Checking the circuit by means of the main unit keys

a. Motorized volume operation

The motorized volume is tunred UP/DOWN for 16 seconds when the OTT KEY is operated.

b. PRESET CH. UP/DOWN operation can be caried out by operating the TUNING UP/DOWN key when the INPUT SELECTOR is the TUNER.

d. Switching the PRESENCE MODE

The PRESENCE MODE is switched according to the following cycle by pressing the AI 2 KEY.

| → ARENA → | JAZZ → | STADIUM → | MOVIE → | GAME → | HIT → | OFF |
|---|---|---|---|---|---|---|
| (SUN) | (MON) | (TUE) | (WED) | (THU) | (FRI) | (--) |

### 1.2 INITIAL SETTING

(1) Setting method

Plug the power cord into the AC electrical outlet while pressing the TUNER KEY.

(2) Contetns

The internal conditions of the equipment are set in the initial state.

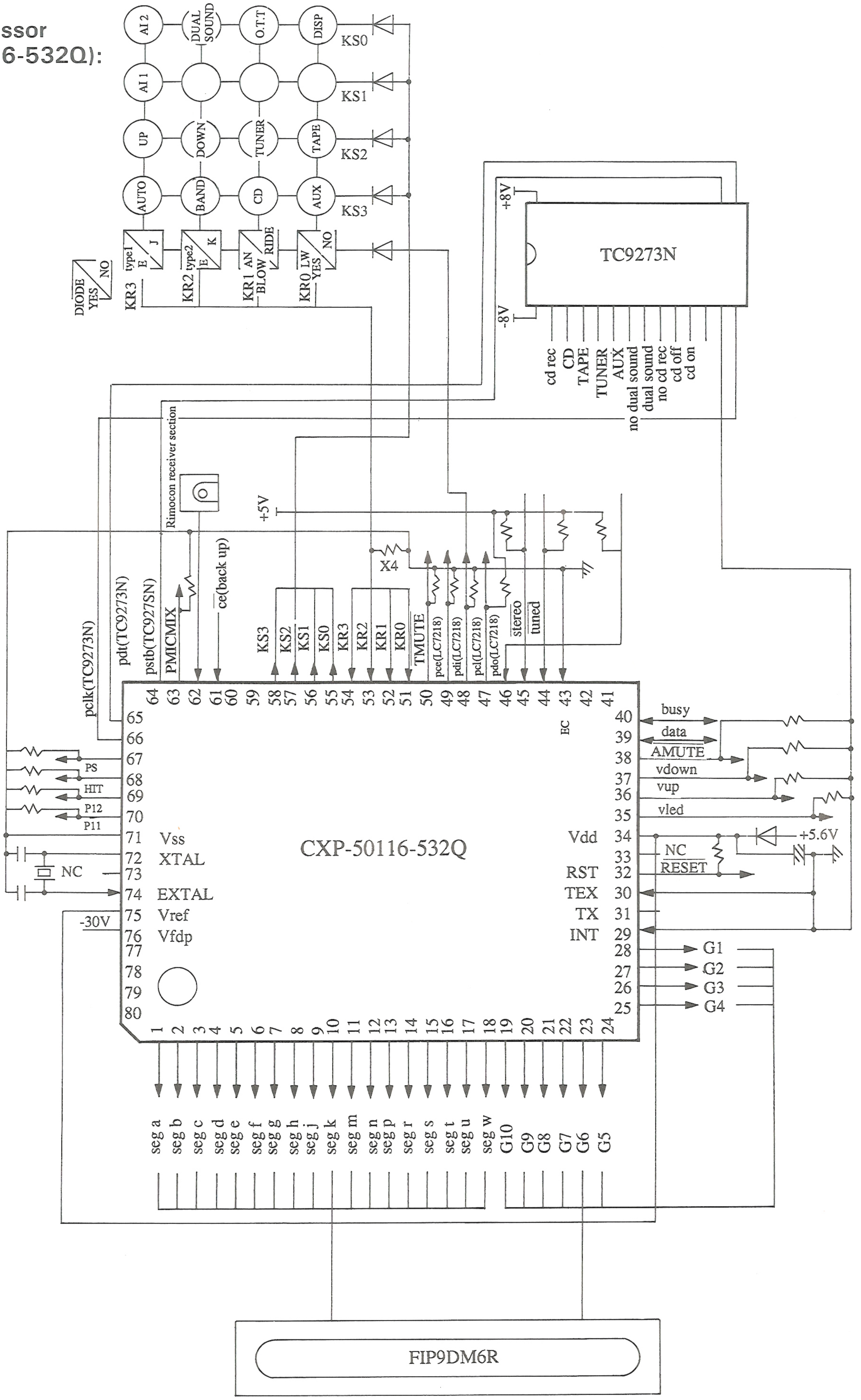
## 2. Conditions according on the destination area and the model

### LC7218 DATA TABLE

| Receiving band | Destination area | Destination area SW KRET 3 2 1 0 | Receiving frequency band | Channel space | Ref frequency | L. Osc frequency | PLL input terminal | PL port OUT 0 1 2 3 4 5 6 |
|---|---|---|---|---|---|---|---|---|
| FM | J | 0 0 0 0 | 76.0MHz ~ 90.0MHz | 100kHz | 25kHz | −10.7MHz | FMIN Internal prescaler 1/2 | m i H L H H H |
| | E | 1 1 0 0 | 87.5MHz ~ 108.0MHz | 50kHz | 25kHz | +10.7MHz | | |
| | K | 1 0 0 0 | | 100kHz | | | | |
| AM | J | 0 0 0 0 | 531kHz ~ 1602kHz | 9kHz | 9kHz | +450kHz | AMIN | m i H H L H H |
| | E | 1 1 0 0 | | | | | | |
| | K1 | 1 0 1 0 | 530kHz ~ 1610kHz | 10kHz | 10kHz | | | |
| | K2 | 1 0 0 0 | 530kHz ~ 1700kHz | | | | | |
| LW | E | 1 1 0 1 | 153kHz ~ 279kHz | 9kHz | 9kHz | +450kHz | AMIN | m i H H H L H |

## CIRCUIT DESCRIPTION

**Microprocessor**
**(CXP-50116-532Q):**
(X11 : IC50)


AI2
DUAL SOUND
O.T.T
DISP
KS0
AI1
KS1
UP
DOWN
TUNER
TAPE
KS2
AUTO
BAND
CD
AUX
KS3
DIODE YES NO
KR3 type1 E J
KR2 type2 E K
KR1 AN BLOW RIDE
KR0 LW YES NO
+8V
TC9273N
-8V
cd rec
CD
TAPE
TUNER
AUX
no dual sound
dual sound
no cd rec
cd off
cd on
Rimocon receiver section
+5V
X4
pclk(TC9273N)
pdt(TC9273N)
pstb(TC927SN)
PMICMIX
ce(back up)
KS3
KS2
KS1
KS0
KR3
KR2
KR1
KR0
TMUTE
pce(LC7218)
pdi(LC7218)
pcl(LC7218)
pdo(LC7218)
stereo
tuned
busy
data
AMUTE
vdown
vup
vled
+5.6V
NC
RESET
PS
HIT
P12
P11
Vss
XTAL
NC
EXTAL
Vref
Vfdp
-30V
CXP-50116-532Q
Vdd
RST
TEX
TX
INT
G1
G2
G3
G4
seg a
seg b
seg c
seg d
seg e
seg f
seg g
seg h
seg j
seg k
seg m
seg n
seg p
seg r
seg s
seg t
seg u
seg w
G10
G9
G8
G7
G6
G5
FIP9DM6R

## CIRCUIT DESCRIPTION

**Pin Description**

| PIN | PIN NAME | I/O | NAME | DESCRIPTION |
|---|---|---|---|---|
| 1 | s4/pg0 | O | segment A | |
| 2 | s5/pg1 | O | segment B | |
| 3 | s6g/pg2 | O | segment C | |
| 4 | s7/pg3 | O | segment D | |
| 5 | s8/pk0 | O | segment E | |
| 6 | s9/pk1 | O | segment F | |
| 7 | s10/pk2 | O | segment G | |
| 8 | s11/pk3 | O | segment H | |
| 9 | s12/pj0 | O | segment J | Fluorescent character display tube segment |
| 10 | s13/pj1 | O | segment K | |
| 11 | s14/pj2 | O | segment M | |
| 12 | s15/pj3 | O | segment N | |
| 13 | s16/t15 | O | segment P | |
| 14 | s17/t14 | O | segment R | |
| 15 | s18/t13 | O | segment S | |
| 16 | s19/t12 | O | segment T | |
| 17 | s20/t11 | O | segment U | |
| 18 | s21/t10 | O | segment W | |
| 19 | s22/t9 | O | grid 10 | |
| 20 | s23/t8 | O | grid 9 | |
| 21 | t7 | O | grid 8 | |
| 22 | t6 | O | grid 7 | Fluorescent character display tube grid |
| 23 | t5 | O | grid 6 | |
| 24 | t4 | O | grid 5 | |
| 25 | t3 | O | grid 4 | |
| 26 | t2 | O | grid 3 | |
| 27 | t1 | O | grid 2 | |
| 28 | t0 | O | grid 1 | |
| 29 | int | O | no use | Unused Handling: Connect with Vss |
| 30 | tx | — | no use | Unused Handling: Open |
| 31 | tex | I | no use | Unused Handling: Connect with Vss |
| 32 | rst | I/o | reset | Reset terminal |
| 33 | nc | — | non conect | Unused Handling: Open |
| 34 | vdd | — | vdd | +5V application termianl |
| 35 | pi0/ad0 | O | vled | Volume LED |
| 36 | pi1/ad1 | O | vup | Volume UP terminal |
| 37 | pi2/ad2 | O | vdown | Volume DOWN terminal |
| 38 | pi3/ad3 | O | amute | Amp. mute (Active LOW) |
| 39 | pb0/ad4 | I/O | data | Serial communication data terminal |
| 40 | pb1/ad5 | I/O | busy | Serial communication busy terminal |

# CIRCUIT DESCRIPTION

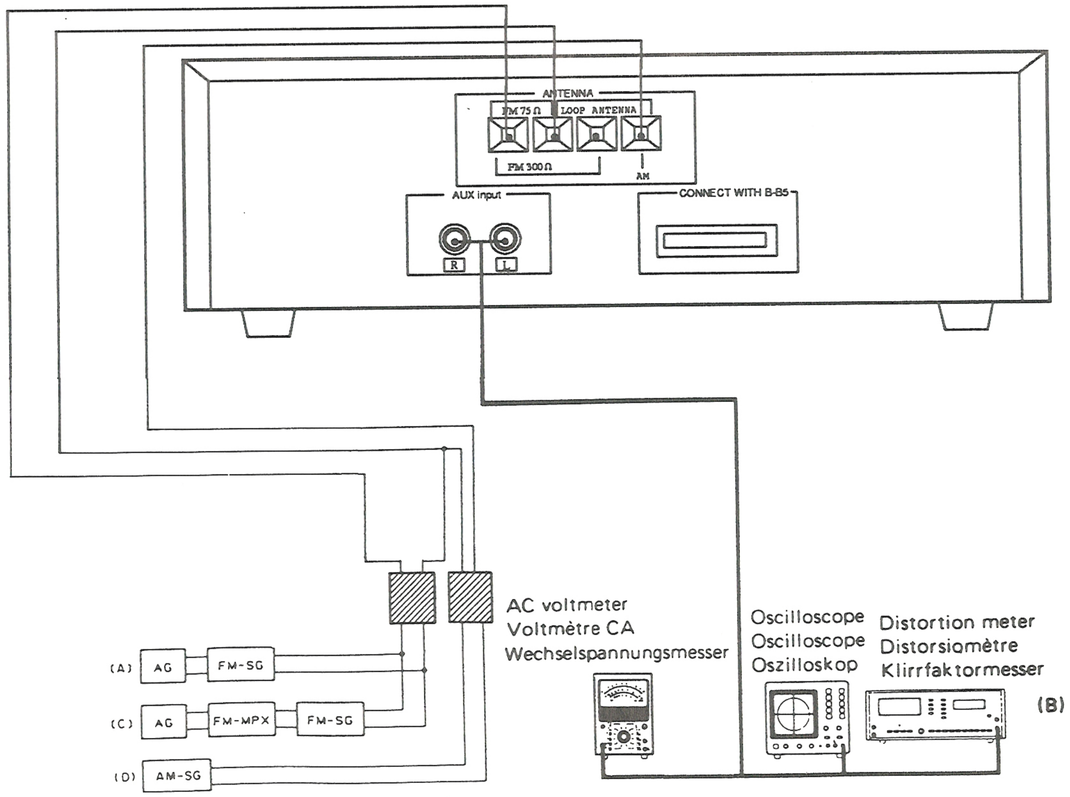
Pin Description

| PIN | PIN NAME | I/O | NAME | DESCRIPTION |
|---|---|---|---|---|
| 41 | pb2/ad6 | O | no use | Presence ON/OFF SW (1: Presence ON) |
| 42 | pb3/ad7 | O | no use | Dolby ON/OFF SW (1: Dolby ON) |
| 43 | ec | — | ec | Unused Handline: Connect with Vss |
| 44 | px0/sc | I | tuned | SD detector terminal (Active LOW) |
| 45 | px1/so | I | stereo | ST detector terminal (Active LOW) |
| 46 | px2/si | I | pdo | PLL LC7218 DO terminal |
| 47 | pa0 | O | pcl | PLL LC7218 CL terminal |
| 48 | pa1 | O | pdi | PLL LC7218 DI terminal |
| 49 | pa2 | O | pce | PLL LC7218 CE terminal |
| 50 | pa3 | O | tmute | Tuner mute (Active LOW) |
| 51 | pf0 | I | kr0 | Key return line 0 |
| 52 | pf1 | I | kr1 | Key return line 1 |
| 53 | pf2 | I | kr2 | Key return line 2 |
| 54 | pf3 | I | kr3 | Key return line 3 |
| 55 | pe0 | O | ks0 | Key scan line 0 |
| 56 | pe1 | O | ks1 | Key scan line 1 |
| 57 | pe2 | O | ks2 | Key scan line 2 |
| 58 | pe3 | O | ks3 | Key scan line 3 |
| 59 | py0 | O | no use | Unused Handling: Open |
| 60 | py1/pwm | O | no use | Unused Handling: Open |
| 61 | py2/wp | I | ce (back up) | Backup detector terminal (Active LOW) |
| 62 | py3/rmc | I | remain | Remote control detector terminal (Active LOW) |
| 63 | pd0 | O | pmicmix | Microphone mixing SW (HIGH during recording) |
| 64 | pd1 | O | pstb | Selector TC9273N strobe terminal |
| 65 | pd2 | O | pdt | Selector TC9273N data terminal |
| 66 | pd3 | O | pclk | Selector TC9273N clock terminal |
| 67 | pc0 | O | ps | Presence logic port |
| 68 | pc1 | O | phit | |
| 69 | pc2 | O | p12 | |
| 70 | pc3 | O | p11 | |
| 71 | vss | — | vss | GND terminal |
| 72 | xtal | — | extal | Crystal oscillator 4.19MHz |
| 73 | nc | — | non conect | Unused Handling: Open |
| 74 | extal | — | extal | Crystal oscillator 4.19MHz |
| 75 | vref | — | vref | Connected the with power supply voltage detector reset reference voltage application termianl Vdd |
| 76 | vfdp | — | vfdp | Fluorescent character displauy crasing voltage application terminal (−30V) |
| 77 | so/ph0 | O | no use | Unused Handling: Open |
| 78 | s1/ph1 | O | no use | Unused Handling: Open |
| 79 | s2/ph2 | O | no use | Unused Handling: Open |
| 80 | s3/ph3 | O | no use | Unused Handling: Open |

# ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| FM SECTION BAND : FM | | | | | | | |
| 1 | DISCRIMINATOR | (A)<br>98.0 MHz<br>1 kHz,±75kHz dev<br>60 dB μ (ANT input) | Connect a DC voltmeter between TP3 and TP4.<br>(X05-) | AUTO or MONO 98.0 MHz | L3<br>(X05-) | 0V | (a) |
| | | | | | L4<br>(X05-) | Minimum distortion. | |
| 2 | DISTORTION (STEREO) | (C)<br>98.0 MHz<br>1 kHz,±68.25 kHz dev<br>Pilot:±7.5kHz dev<br>60 dB μ (ANT input) | (B) | AUTO 98.0 MHz | IFT<br>(W02-) | Minimum distortion. | |
| 3 | SEPARATION | (C)<br>98.0 MHz<br>1 kHz,±40 kHz dev<br>Pilot:±6kHz dev<br>Selector: L or R<br>60 dB μ (ANT input) | (B) | AUTO 98.0 MHz | VR3<br>(X05-) | Minimum distortion. | |
| 4 | TUNING LEVEL | (A)<br>98.0 MHz<br>1 kHz,±75 kHz dev<br>14 dB μ (ANT input) 75 Ω<br>60 dB μ (ANT input)300 Ω | (B) | AUTO or MONO 98.0 MHz | VR1<br>(X05-) | Adjust VR1 and stop at the point-where FL201(TUNED) goes ON. | |
| AM (MW) SELECTION BAND: AM(MW) | | | | | | | |
| (1) | TUNING LEVEL | (D)<br>1008 kHz<br>400 Hz, 30% mod<br>26 dB μ (ANTinput) | (B) | 1008 kHz | VR2<br>(X05-) | Adjust VR3 and stop at the point-where FL201(TUNED) goes ON. | |

When the tuner PCB (X05-) is removed from the main unit, please be sure to connect the PCB's GND (ANT shield is not necessary) to the main unit chassis ( an alligator clip is usefuil for this ) and check the conductivity.



# REGLAGE

| N° | ITEM | REGLAGEE DE L'ENTREE | REGLAGE DE LA SORTIE | REGLAGE DU TUNER | POINT DE L'ALIGNEMENT | ALIGNER POUR | FIG. |
|---|---|---|---|---|---|---|---|
| SECTION MF | BAND : FM | | | | | | |
| 1 | DISCRIMINATEUR | (A)<br>98.0 MHz<br>1 kHz,±75kHz dév<br>60 dB μ (Entée ANT) | Relier un voltmètre CC entre les TP3 et TP4.<br>(X05-) | AUTO<br>ou MONO<br>98.0 MHz | L3<br>(X05-)<br>L4<br>(X05-) | 0V<br>Distorsion minimale. | (a) |
| 2 | DISTORSION (STEREO) | (C)<br>98.0 MHz<br>1 kHz,±68.25 kHz dév<br>Signal pilot:±7.5kHz dév<br>60 dB μ (Entrée ANT) | (B) | AUTO<br>98.0 MHz | IFT<br>(W02-) | Distorsion minimale. | |
| 3 | SEPARATION | (C)<br>98.0 MHz<br>1 kHz,±40 kHz dév<br>Signal pilote:±6kHz dév<br>Selection: L ou R<br>60 dB μ (Entée ANT ) | (B) | AUTO<br>98.0 MHz | VR3<br>(X05-) | Diaphonie minimale. | |
| 4 | NIVEAU D'ACCORDER | (A)<br>98.0 MHz<br>1 kHz,±75 kHz dév<br>14 dB μ (Entée ANT )<br>75Ω<br>60 dB μ (Entée ANT )<br>300Ω | (B) | AUTO<br>ou MONO<br>98.0 MHz | VR1<br>(X05-) | Aduster VR1 que FL1(TUNED) est non al lumé. Alors. ajuster VR2 et arrêter le mouvement de VR1 au moment oú le FL1(TUNED)s' allume. | |
| SELECTION MA | BAND: AM(MW) | | | | | | |
| (1) | NIVEAU D'ACCORDER | (D)<br>1008 kHz<br>400 Hz, 30% mod<br>26 dB μ (Entée ANT) | (B) | 1008 kHz | VR2<br>(X05-) | Aduster VR3 que FL1(TUNED) est non al lumé. Alors. ajuster VR2 et arrêter le mouvement de VR1 au moment oú le FL1(TUNED)s' allume. | |

Lorsque la carte PCB du tuner (X05-) est retirée de l'unité principale , n'oubliez pas de connecter la masse GND de la carte PCB (un blindage ANT n'est pas nécessaire) au châssis de l'unité principale (une agrafe crocodile est utile pour cela ) et vérifiez la conductivité.

---

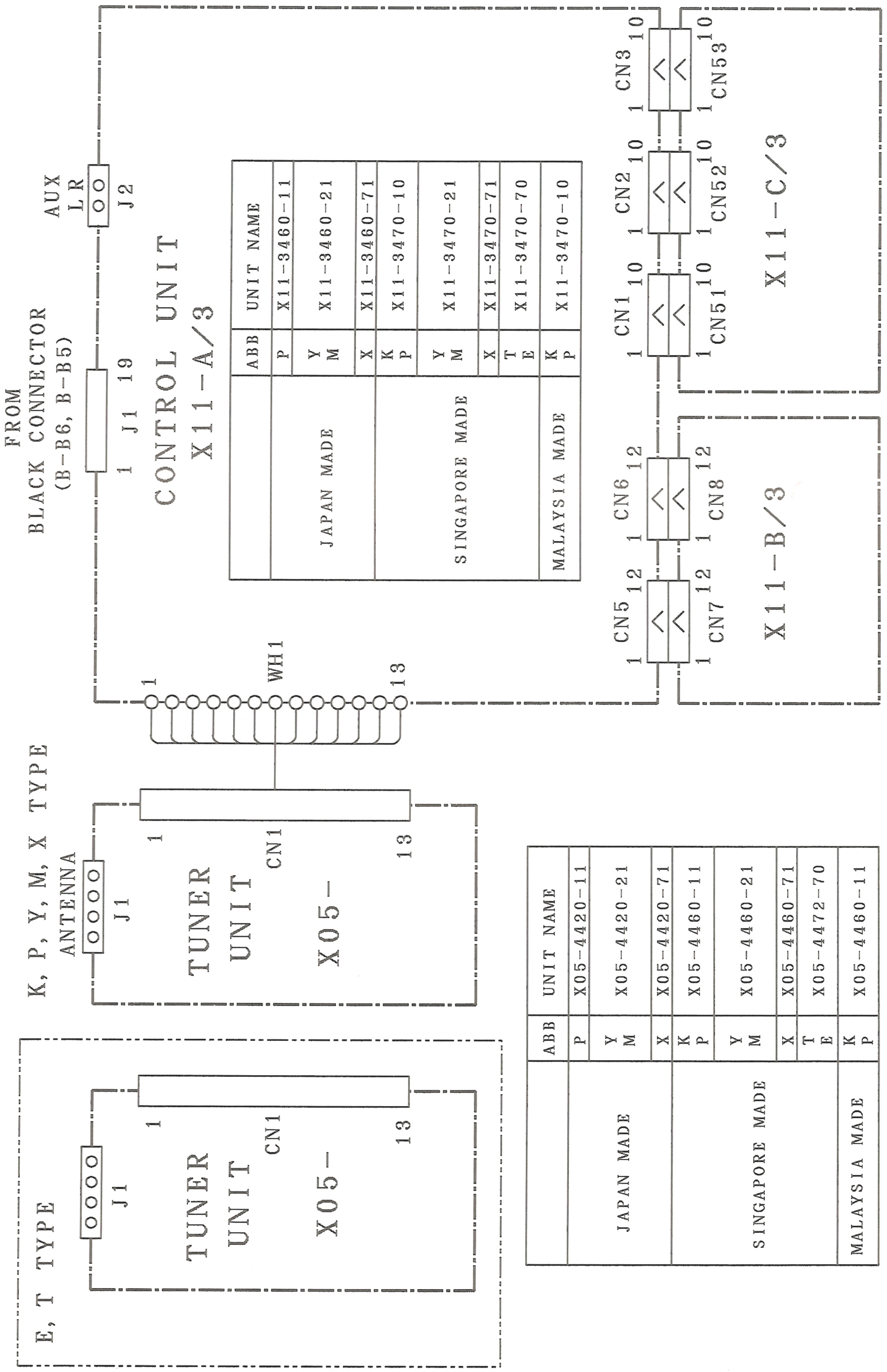
# ABGLEICH

| NR. | gegestand | EINGANGS-EINSTELLUNG | AUSGANGS-EINSTELLUNG | TUNER EINSTELLUNG | ABGLEICH-PUNKTE | ABGLEICHEN FÜR | abb. |
|---|---|---|---|---|---|---|---|
| UKW-EMPFANGSABTEILUNG | BAND : FM | | | | | | |
| 1 | DISKRIMINATOR | (A)<br>98.0 MHz<br>1 kHz,±75kHz Hub<br>60 dB μ (ANT-Eingang) | Einen Gleichspannungs-messer zwischen TP4 und TP3 anschlieβen.<br>(X05-) | AUTO<br>oder MONO<br>98.0 MHz | L3<br>(X05-)<br>L4<br>(X05-) | 0V<br>Minimal klirrfactor. | (a) |
| 2 | KLIRRFACTOR (STEREO) | (C)<br>98.0 MHz<br>1 kHz,±68.25 kHz Hub<br>Pilotten:±7.5kHz Hub<br>60 dB μ (ANT-Eingamg) | (B) | AUTO<br>98.0 MHz | IFT<br>(W02-) | Minimal klirrfactor. | |
| 3 | SEPARATION | (C)<br>98.0 MHz<br>1 kHz,±40 kHz Hub<br>Pilotten:±6kHz Hub<br>Wähler: L oder R<br>60 dB μ (ANT-Eingang ) | (B) | AUTO<br>98.0 MHz | VR3<br>(X05-) | Minimal klirrfactor. | |
| 4 | ABSTIMM PEGEL | (A)<br>98.0 MHz<br>1 kHz,±75 kHz Hub<br>14 dB μ (ANT-Eingang )<br>75Ω<br>60 dB μ (ANT-Eingang )<br>300Ω | (B) | AUTO<br>oder MONO<br>98.0 MHz | VR1<br>(X05-) | Den pegel widerstand VR1 so einstellen. deβ der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR2 Halt gebenwobei den FL1(TUNED) anzeiger leuchtet wird. | |
| SELECTION MA | BAND: AM(MW) | | | | | | |
| (1) | NIVEAU D'ACCORDER | (D)<br>1008 kHz<br>400 Hz, 30% mod<br>26 dB μ (Entée ANT) | (B) | 1008 kHz | VR2<br>(X05-) | Den pegel widerstand VR1 so einstellen. deβ der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR3 Halt gebenwobei den FL1(TUNED) anzeiger leuchtet wird. | |

Wenn die Tuner-Platie (X05-) vom Hauptgerät entfernt wird, ist darauf zu achten, daß der Masseanschluß (GND) der Platine (ANT-Abschirmung ist nicht erforderlich) an das Gehäuse des Hauptderäts angeschlossen (z.B.über Krokodilklemme) und die Konduktivität überprüft wird.

# C-B5/L

## WIRING DIAGRAM


AUX
L R
J2
FROM
BLACK CONNECTOR
(B-B6, B-B5)
J1
1
19
CONTROL UNIT
X11-A/3
CN1
CN2
CN3
CN51
CN52
CN53
X11-C/3
CN5
CN6
CN7
CN8
X11-B/3
WH1
1
13
K, P, Y, M, X TYPE
ANTENNA
J1
TUNER
UNIT
X05-
CN1
1
13
E, T TYPE
J1
TUNER
UNIT
X05-
CN1
1
13

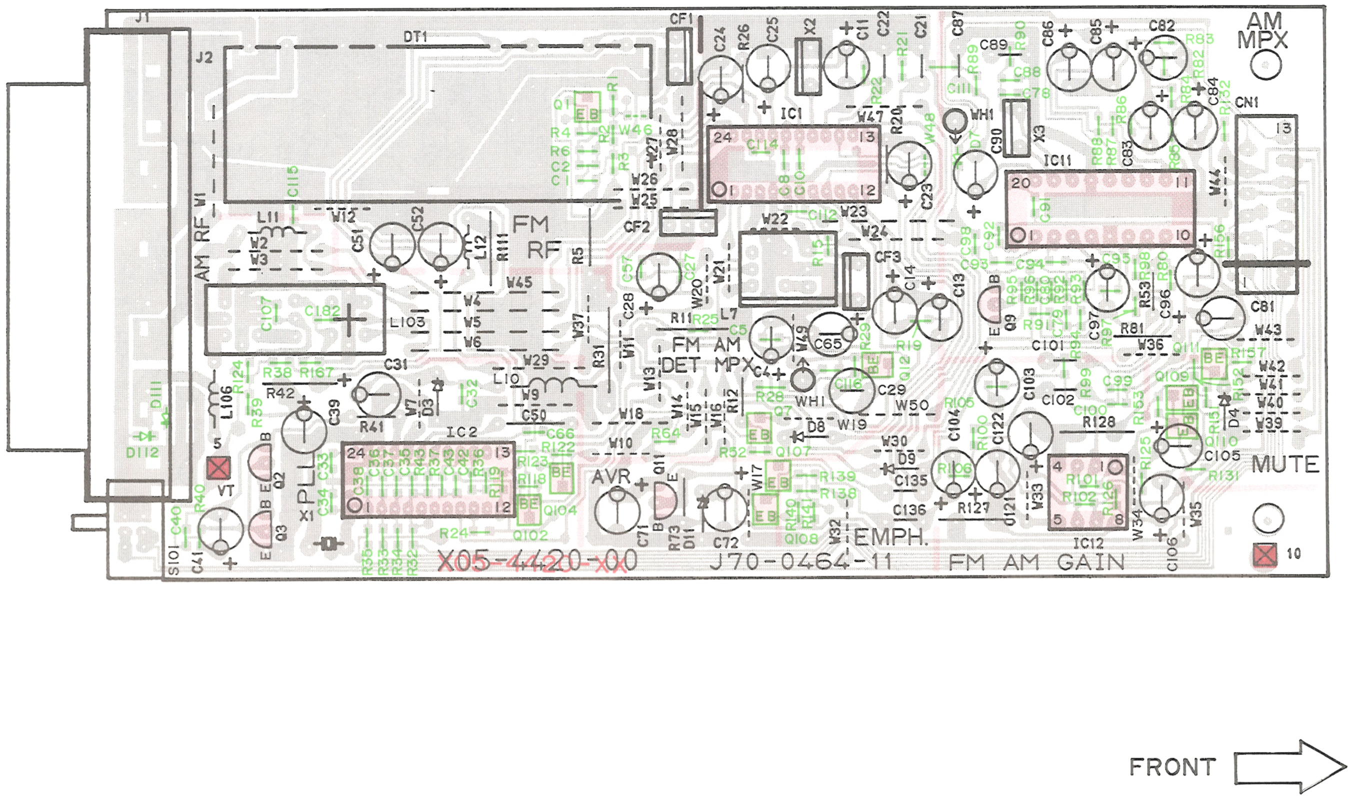
| | ABB | UNIT NAME |
|---|---|---|
| JAPAN MADE | P | X11-3460-11 |
| | Y M | X11-3460-21 |
| | X | X11-3460-71 |
| SINGAPORE MADE | K P | X11-3470-10 |
| | Y M | X11-3470-21 |
| | X | X11-3470-71 |
| | T E | X11-3470-70 |
| MALAYSIA MADE | K P | X11-3470-10 |

| | ABB | UNIT NAME |
|---|---|---|
| JAPAN MADE | P | X05-4420-11 |
| | Y M | X05-4420-21 |
| | X | X05-4420-71 |
| SINGAPORE MADE | K P | X05-4460-11 |
| | Y M | X05-4460-21 |
| | X | X05-4460-71 |
| | T E | X05-4472-70 |
| MALAYSIA MADE | K P | X05-4460-11 |

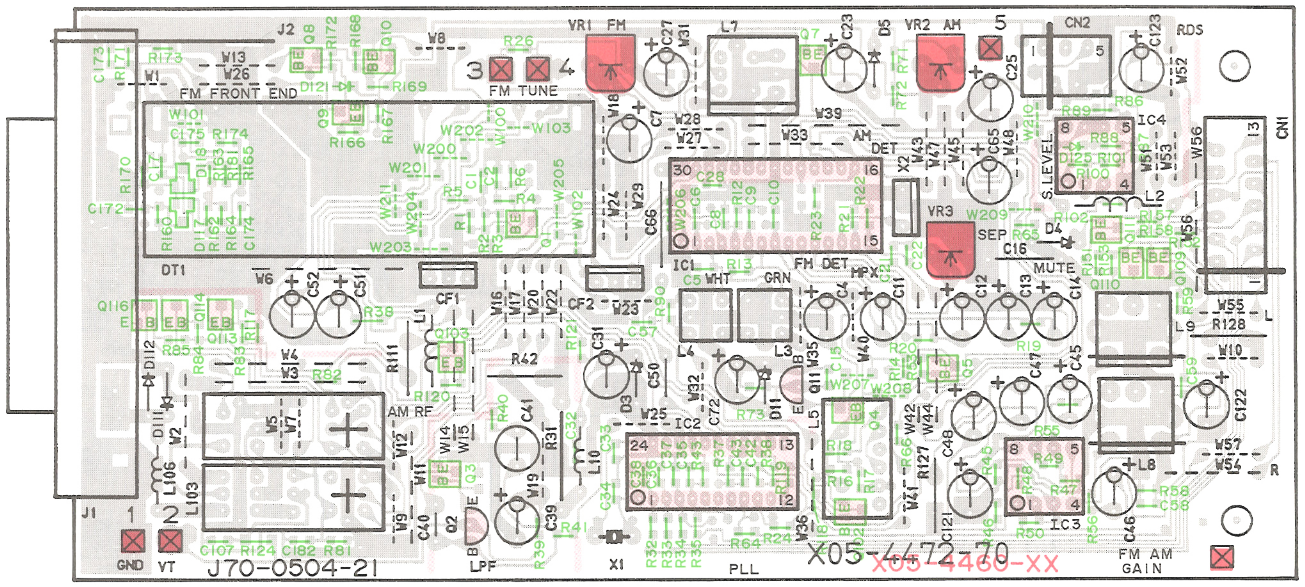
## PC BOARD (Component side view)

### TUNER UNIT

C-B5 : X05-4420-00 (JAPAN MADE)
0-XX (JAPAN, MALAYSIA MADE)
C-B5/L : X05-4460-XX (SINGAPORE MADE)

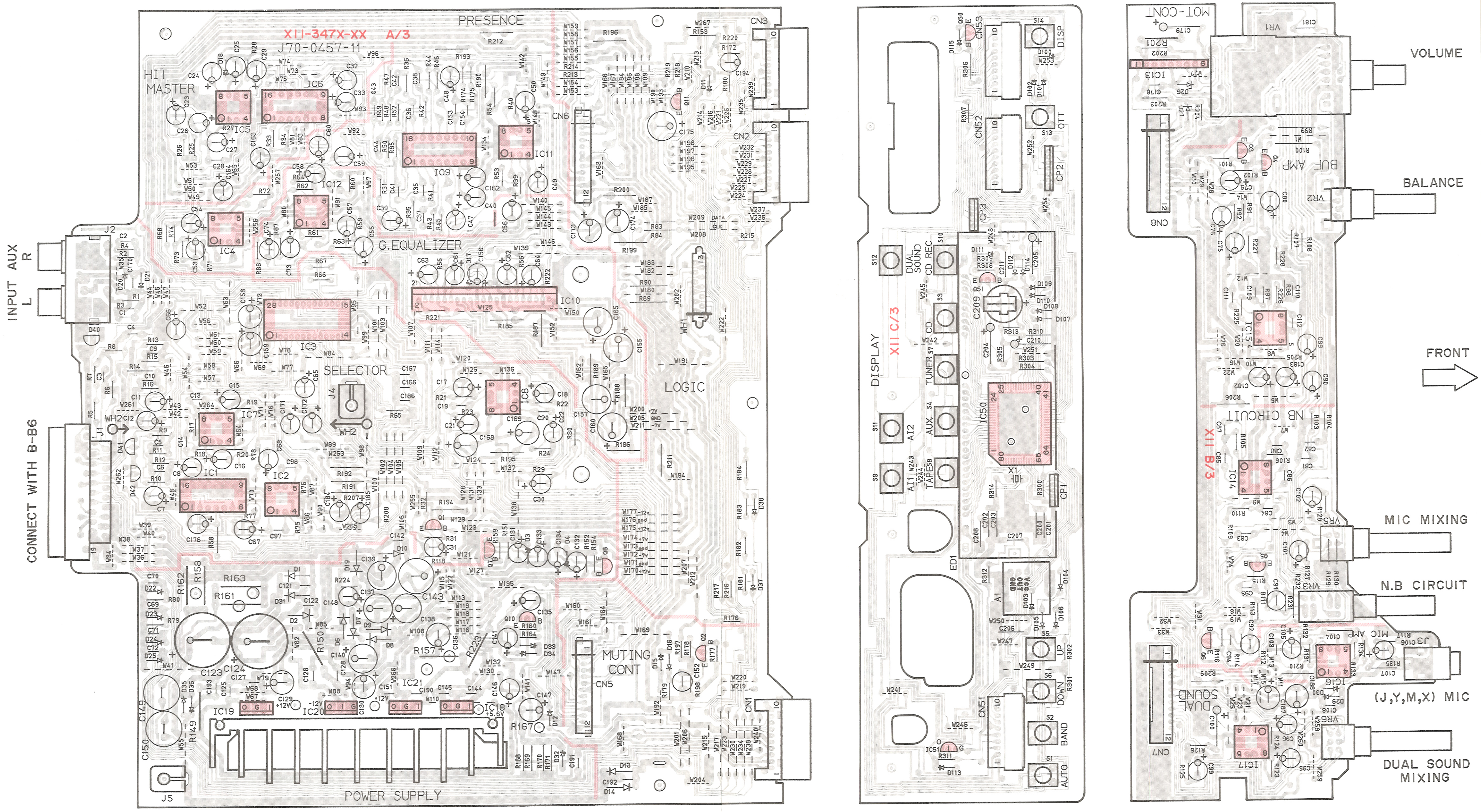

J1
J2
DT1
AM MPX
CN1
AM RF W1
FM RF
FM AM DET MPX
IC1
IC2
IC11
IC12
AVR
EMPH.
MUTE
X05-4420-00
J70-0464-11
FM AM GAIN
FRONT

C-B5/L : X05-4472-70 (SINGAPORE MADE)


J2
W1
FM FRONT END
VR1 FM
VR2 AM
VR3
FM TUNE
RDS
CN2
CN1
IC1
IC2
IC3
IC4
DT1
AM RF
FM DET
MPX
SEP
S.LEVEL
MUTE
LPF
PLL
GND
VT
J1
J70-0504-21
X05-4472-70
X05-4460-XX
FM AM GAIN

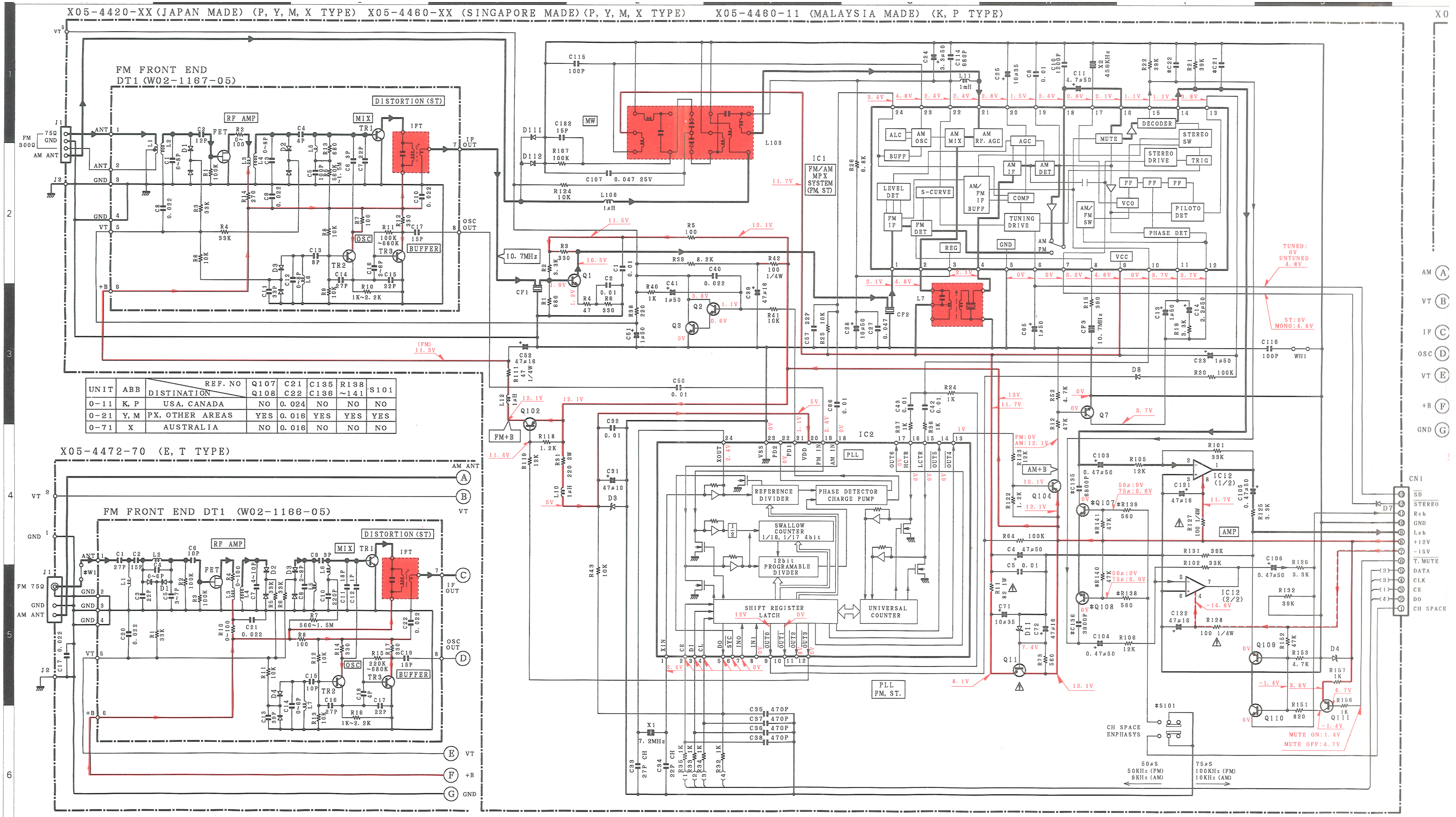
Refer to the schematic diagram for the values of resistors and capacitors.

# PC BOARD (Component side view) CONTROL UNIT(X11-346X-XX)

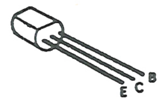

X11-347X-XX A/3
J70-0457-11
PRESENCE
HIT MASTER
G.EQUALIZER
SELECTOR
LOGIC
MUTING CONT
POWER SUPPLY
INPUT AUX L R
CONNECT WITH B-B6
J1
J2
J4
J5
WH1
WH2
CN1
CN2
CN3
CN5
CN6
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
IC9
IC10
IC11
IC12
IC18
IC19
IC20
IC21
DISPLAY
X11 C/3
DUAL SOUND
CD REC
CD
TUNER
AUX
TAPE
AI1
AI2
DISP
OTT
UP
DOWN
BAND
AUTO
IC50
IC51
CN51
CN52
CN53
X1
ED1
MOT-CONT
VOLUME
BALANCE
BUF AMP
VR1
VR2
NB CIRCUIT
X11 B/3
FRONT
MIC MIXING
N.B CIRCUIT
MIC AMP
(J,Y,M,X) MIC
DUAL SOUND
DUAL SOUND MIXING
IC13
IC14
IC15
IC16
IC17
CN7
CN8

Refer to the schematic diagram for the values of resistors and capacitors.

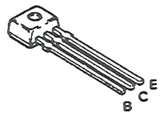
X05-4420-XX (JAPAN MADE) (P, Y, M, X TYPE) X05-4460-XX (SINGAPORE MADE) (P, Y, M, X TYPE) X05-4460-11 (MALAYSIA MADE) (K, P TYPE)


FM FRONT END
DT1 (W02-1167-05)
RF AMP
MIX
DISTORTION (ST)
OSC
BUFFER
IFT
IF OUT
OSC OUT
FM 300Ω
75Ω
GND
AM ANT
ANT
VT
+B
J1
J2
MW
L103
IC1
FM/AM MPX SYSTEM (FM, ST)
ALC
AM OSC
AM MIX
AM RF. AGC
AGC
MUTE
DECODER
STEREO SW
STEREO DRIVE
TRIG
BUFF
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
TUNING DRIVE
AM IF
AM DET
FM IF
FM DET
AM/FM SW
VCO
PILOTO DET
PHASE DET
REG
GND
VCC
FF
10.7MHz
CF1
CF2
L7
TUNED: 0V
UNTUNED 4.8V
ST: 0V
MONO: 4.6V
IC2
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
XIN
CE
DI
CL
DO
SYC
INO
IN1
OUT0
OUT1
OUT2
OUT3
XOUT
VSS
PD2
PD1
VDD
FM IN
AM IN
OUT6
HCTR
LCTR
OUT5
OUT4
PLL FM, ST.
X1 7.2MHz
FM+B
AM+B
IC12 (1/2)
IC12 (2/2)
AMP
CN1
SD
STEREO
Rch
GND
Lch
+12V
-15V
T. MUTE
DATA
CLK
CE
DO
CH SPACE
AM
VT
IF
OSC
VT
+B
GND
CH SPACE ENPHASYS
S101
50μS 50KHz (FM) 9KHz (AM)
75μS 100KHz (FM) 10KHz (AM)
MUTE ON: 1.4V
MUTE OFF: 4.7V
X05-4472-70 (E, T TYPE)
FM FRONT END DT1 (W02-1166-05)
Q1
Q2
Q3
Q7
Q11
Q102
Q104
Q107
Q108
Q109
Q110
Q111
D3
D4
D7
D8
D11
D111
D112
A
B
C
D
E
F
G

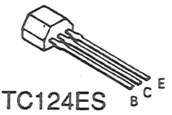
| UNIT | ABB | REF. NO<br>DISTINATION | Q107<br>Q108 | C21<br>C22 | C135<br>C136 | R138<br>~141 | S101 |
|---|---|---|---|---|---|---|---|
| 0-11 | K, P | USA, CANADA | NO | 0.024 | NO | NO | NO |
| 0-21 | Y, M | PX, OTHER AREAS | YES | 0.016 | YES | YES | YES |
| 0-71 | X | AUSTRALIA | NO | 0.016 | NO | NO | NO |



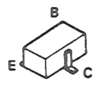
2SA1534A
2SC1845
2SC1878
2SC3940A
2SD863



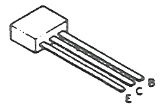
2SA1175
2SC2785



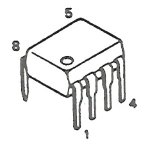
DTC124ES
2SA1048
2SA933S
2SC1740S
2SC2458



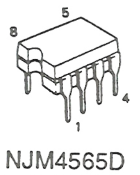
2SA1037K
2SC2412K
2SC2714



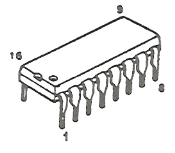
UN4212
2SA1309A
2SC3311A



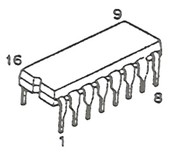
NJM4558D-A



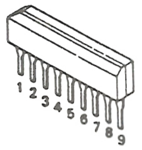
NJM4565D
NJM4565D-D



XRU4053B



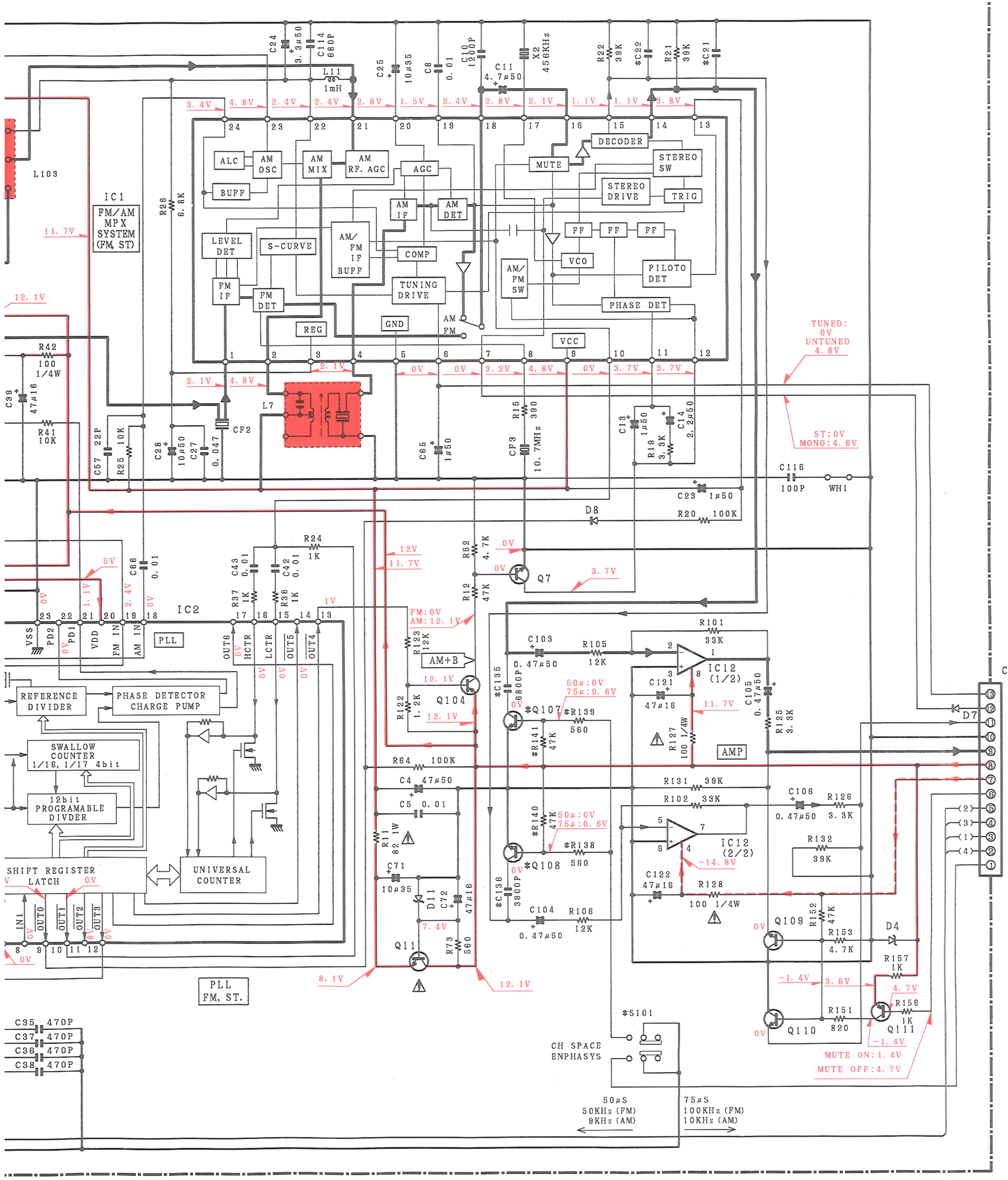
TC4053BP
TC9215P



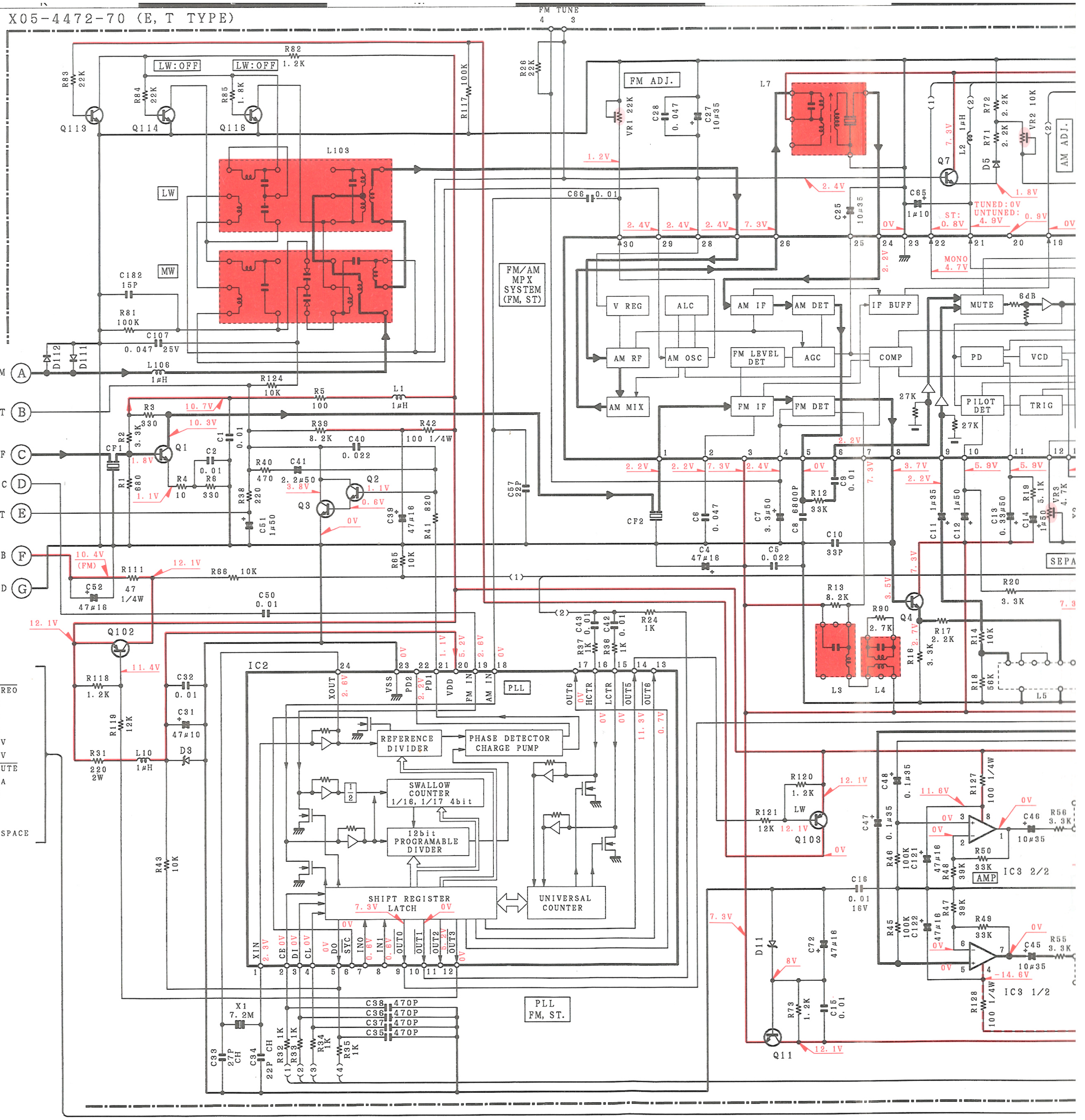
TA8409S

CXA

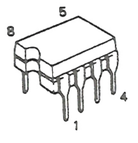
4460-11 (MALAYSIA MADE) (K, P TYPE)

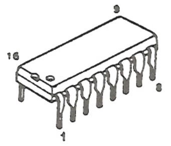

IC1
FM/AM MPX SYSTEM (FM, ST)
L103
ALC
AM OSC
AM MIX
AM RF. AGC
AGC
BUFF
MUTE
DECODER
STEREO SW
STEREO DRIVE
TRIG
AM IF
AM DET
LEVEL DET
S-CURVE
AM/FM IF BUFF
COMP
FF
VCO
PILOTO DET
AM/FM SW
TUNING DRIVE
PHASE DET
FM IF
FM DET
REG
GND
VCC
L7
CF2
TUNED: 0V
UNTUNED: 4.8V
ST: 0V
MONO: 4.6V
IC2
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
AM+B
AMP
IC12 (1/2)
IC12 (2/2)
Q7
Q104
Q107
Q108
Q109
Q110
Q111
Q11
D7
D8
D4
D11
CN1
SD
STEREO
Rch
GND
Lch
+12V
-15V
T. MUTE
DATA
CLK
CE
DO
CH SPACE
MUTE ON: 1.4V
MUTE OFF: 4.7V
CH SPACE ENPHASYS
S101
50μS 50KHz (FM) 9KHz (AM)
75μS 100KHz (FM) 10KHz (AM)
PLL FM, ST.
C35 470P
C37 470P
C36 470P
C38 470P
FM: 0V
AM: 12.1V

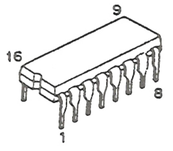
X05-4472-70 (E, T TYPE)

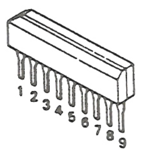

FM TUNE
LW: OFF
LW: OFF
Q113
Q114
Q116
L103
LW
MW
FM ADJ.
VR1 22K
L7
AM ADJ.
VR2 10K
Q7
TUNED: 0V
UNTUNED: 4.9V
ST: 0.8V
MONO 4.7V
FM/AM MPX SYSTEM (FM, ST)
V REG
ALC
AM IF
AM DET
IF BUFF
MUTE
AM RF
AM OSC
FM LEVEL DET
AGC
COMP
PD
VCO
AM MIX
FM IF
FM DET
PILOT DET
TRIG
SEPA
CF2
AM
VT
IF
OSC
VT
+B
GND
Q1
Q2
Q3
Q4
Q102
Q103
Q11
D111
D112
L106
10.4V (FM)
IC2
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
X1 7.2M
PLL FM, ST.
C38 470P
C36 470P
C37 470P
C35 470P
L3
L4
L5
IC3 2/2
IC3 1/2
AMP
D11
D3
L10

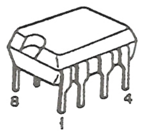
58D-A

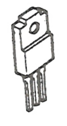

NJM4565D
NJM4565D-D


XRU4053B


TC4053BP
TC9215P


TA8409S


CXA1642P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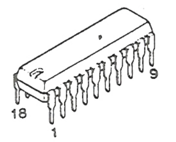
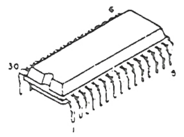
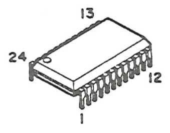
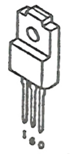
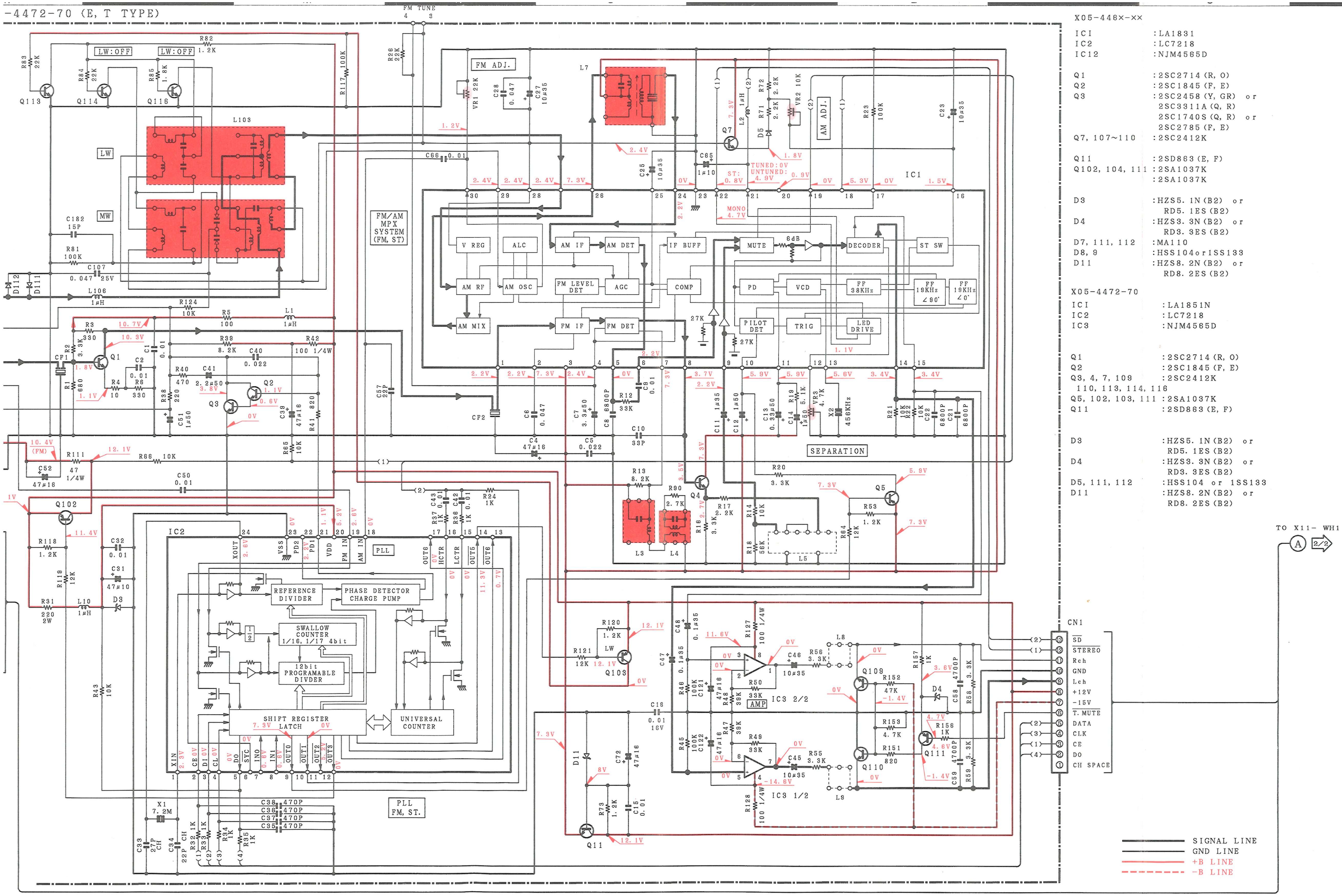

TDA3810


LA1851N


LA1831


AN780575F
TA7812S

-4472-70 (E, T TYPE)


FM TUNE
LW:OFF
LW:OFF
L103
LW
MW
FM ADJ.
L7
AM ADJ.
FM/AM MPX SYSTEM (FM, ST)
V REG
ALC
AM IF
AM DET
IF BUFF
MUTE
DECODER
ST SW
AM RF
AM OSC
FM LEVEL DET
AGC
COMP
PD
VCD
FF 38KHz
FF 19KHz ∠90°
FF 19KHz ∠0°
AM MIX
FM IF
FM DET
PILOT DET
TRIG
LED DRIVE
IC1
TUNED:0V
UNTUNED: 4.9V
MONO 4.7V
SEPARATION
IC2
PLL
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
SWALLOW COUNTER 1/16, 1/17 4bit
12bit PROGRAMABLE DIVDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
PLL FM, ST.
X1 7.2M
IC3 2/2
IC3 1/2
AMP
L3
L4
L5
L8
L9
CN1
SD
STEREO
Rch
GND
Lch
+12V
-15V
T. MUTE
DATA
CLK
CE
DO
CH SPACE
TO X11- WH1
A
2/2
SIGNAL LINE
GND LINE
+B LINE
-B LINE

X05-446×-××

ICI :LA1831
IC2 :LC7218
IC12 :NJM4565D

Q1 :2SC2714 (R, O)
Q2 :2SC1845 (F, E)
Q3 :2SC2458 (Y, GR) or
2SC3311A (Q, R)
2SC1740S (Q, R) or
2SC2785 (F, E)
Q7, 107~110 :2SC2412K

Q11 :2SD863 (E, F)
Q102, 104, 111 :2SA1037K
:2SA1037K

D3 :HZS5. 1N (B2) or
RD5. 1ES (B2)
D4 :HZS3. 3N (B2) or
RD3. 3ES (B2)
D7, 111, 112 :MA110
D8, 9 :HSS104or1SS133
D11 :HZS8. 2N (B2) or
RD8. 2ES (B2)

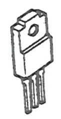
X05-4472-70

ICI :LA1851N
IC2 :LC7218
IC3 :NJM4565D

Q1 :2SC2714 (R, O)
Q2 :2SC1845 (F, E)
Q3, 4, 7, 109 :2SC2412K
110, 113, 114, 116
Q5, 102, 103, 111 :2SA1037K
Q11 :2SD863 (E, F)

D3 :HZS5. 1N (B2) or
RD5. 1ES (B2)
D4 :HZS3. 3N (B2) or
RD3. 3ES (B2)
D5, 111, 112 :HSS104 or 1SS133
D11 :HZS8. 2N (B2) or
RD8. 2ES (B2)

642P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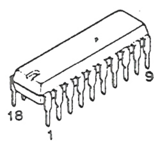

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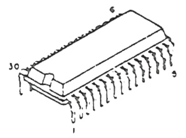
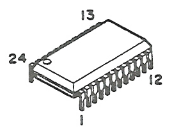
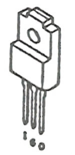


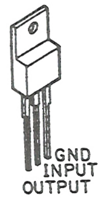
LA1851N

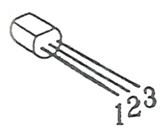


LA1831

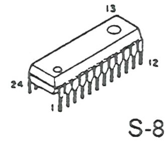

AN780575F
TA7812S

UPC7912HF


GND
INPUT
OUTPUT
TA79012S



LC7218



S-80740AL

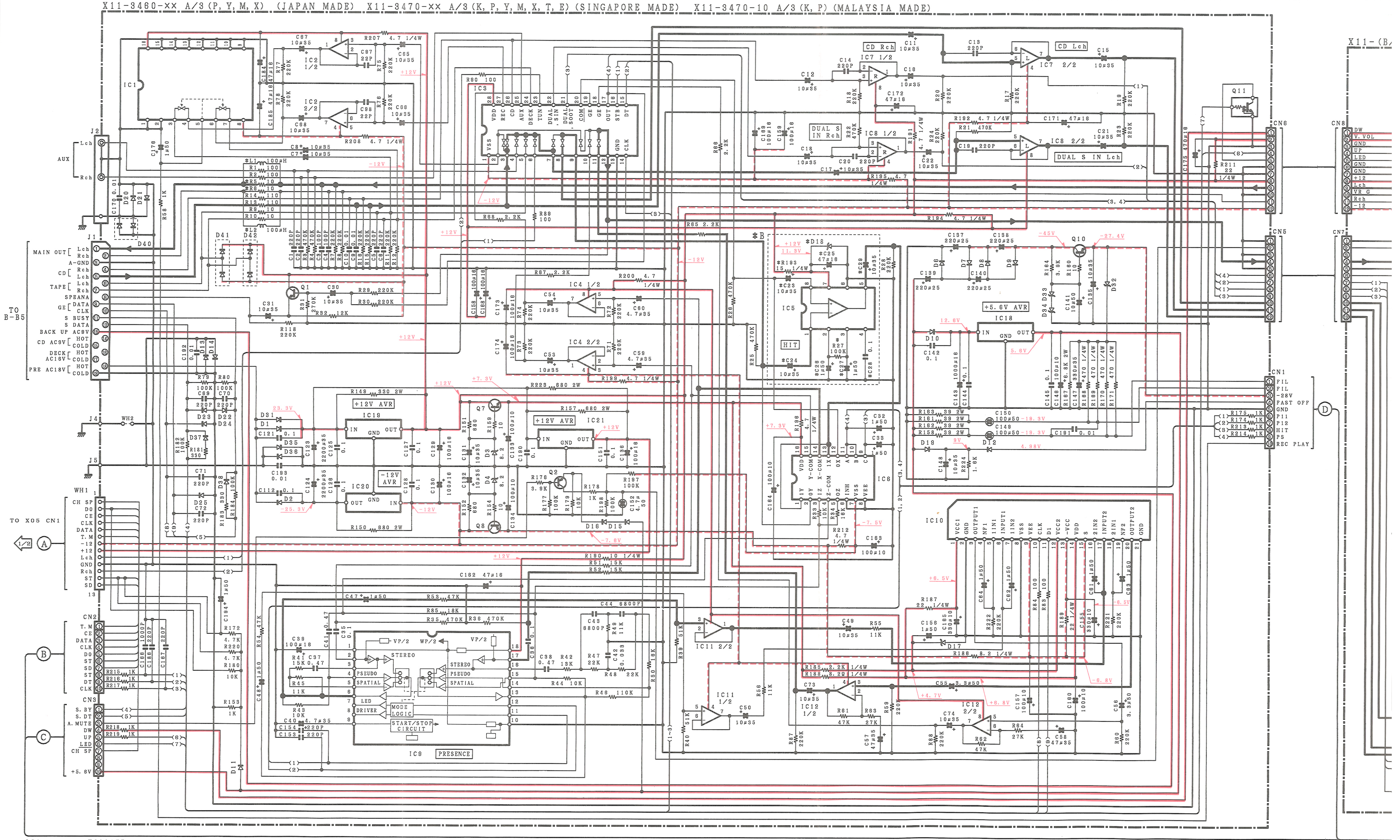
1/2

C-B5/L

KENWOOD

Y05-2810-10

X11-3460-XX A/3 (P, Y, M, X) (JAPAN MADE) X11-3470-XX A/3 (K, P, Y, M, X, T, E) (SINGAPORE MADE) X11-3470-10 A/3 (K, P) (MALAYSIA MADE)


X11-(B/
AUX
Lch
Rch
J2
J1
MAIN OUT
CD
TAPE
SPEANA
GE DATA
CLK
S BUSY
S DATA
BACK UP AC8V
CD AC8V HOT COLD
DECK AC18V HOT COLD
PRE AC18V HOT COLD
TO B-B5
J4
WH2
J5
WH1
TO X05 CN1
1/2
A
B
C
D
CH SP
DO
CE
CLK
DATA
T.M
-12
+12
Lch
GND
Rch
ST
SD
CN2
CN3
S.BY
S.DT
A.MUTE
DW
UP
LED
+5.8V
IC1
IC2 1/2
IC2 2/2
IC3
IC4 1/2
IC4 2/2
IC5
IC6
IC7 1/2
IC7 2/2
IC8 1/2
IC8 2/2
IC9
IC10
IC11 1/2
IC11 2/2
IC12 1/2
IC12 2/2
IC18
IC19
IC20
IC21
+12V AVR
-12V AVR
+12V AVR
+5.6V AVR
CD Rch
CD Lch
DUAL S IN Rch
DUAL S IN Lch
HIT
STEREO
PSEUDO
SPATIAL
LED DRIVER
MODE LOGIC
START/STOP CIRCUIT
PRESENCE
VP/2
WP/2
VDD
REC
CD
AUX
DECK
TUN
DUAL SIN
DUAL SOOT
COM
GE
OUT
STB
DT
VSS
GND
CLK
Y-COM
X-COM
INH
VEE
VCC1
OUTPUT1
INPUT1
INPUT2
OUTPUT2
-VCC
CN1
CN5
CN6
CN7
CN8
FIL
-28V
FAST OFF
P11
P12
HIT
PS
REC PLAY
DW
V.VOL
GND
UP
LED
+12
Lch
VR G
Rch
-12
+12V
-12V
+7.3V
23.3V
-25.3V
-7.8V
-7.5V
+6.5V
-6.5V
-6.8V
+4.7V
+8.8V
12.6V
5.6V
-45V
-27.4V
-19.3V
9V
4.98V
11.3V
Q1
Q2
Q7
Q8
Q10
Q11

IC1 :TC9215P
IC2, 4, 7, 8 :NJM4565DD or XRA1521B-DX
11, 12, 14
16, 17

IC3 :TC9273N-003
IC5 :CXA1642P
IC6 :XRU4053B or TC4053BP
IC9 :TDA3810

IC10 :STK301-090
IC13 :TA8409S
IC15 :NJM4558D-A
IC18 :AN780575F

IC19, 21 :μPC7812AHF or TA7812S
IC20 :μPC7912HF or TA79012S

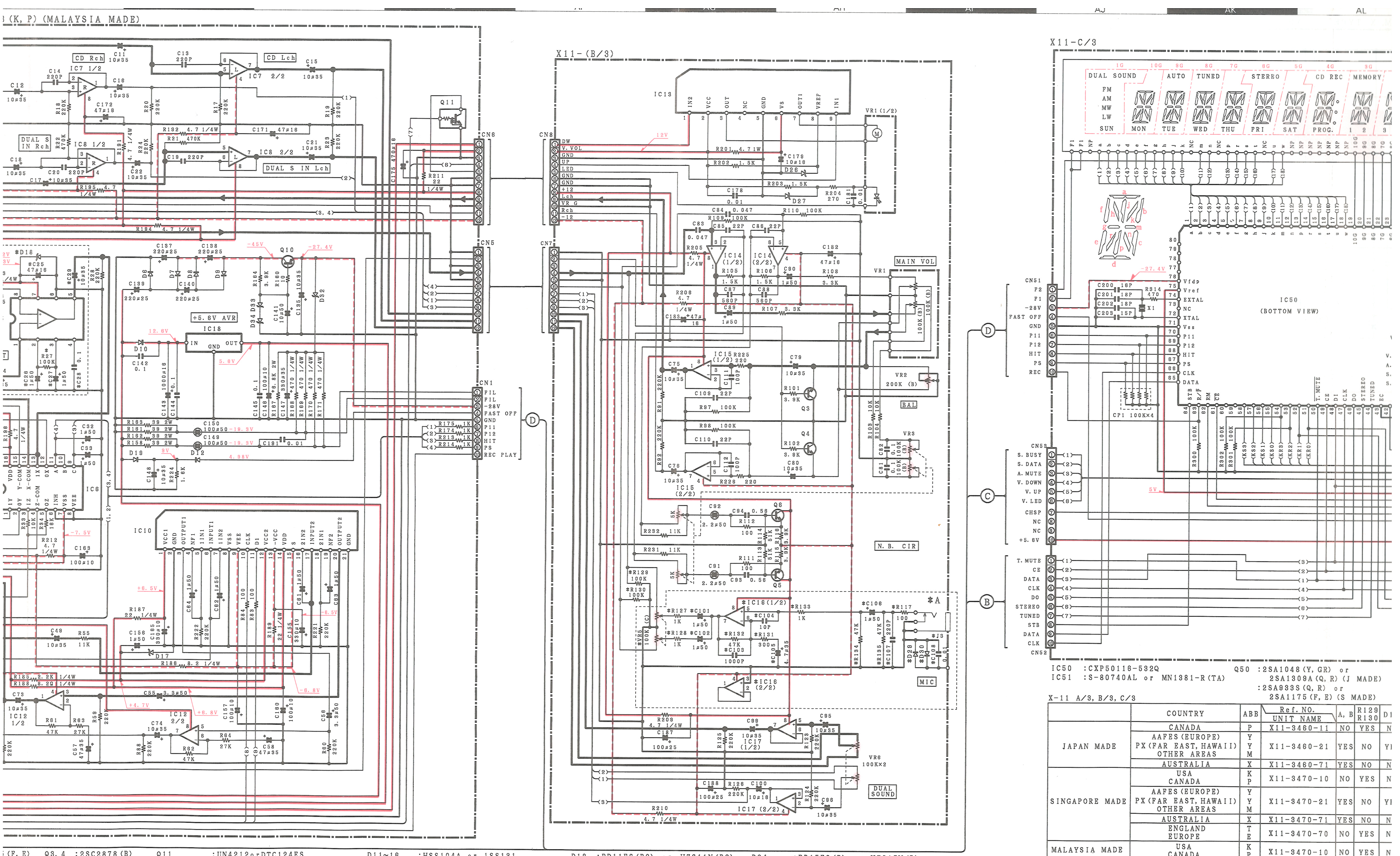
Q1 :2SC1740S (Q. R) or 2SC2785 (F. E)
2SC2458 (Y. GR) or 2SC3311A (Q. R)
Q2 :2SA9335 (Q. R) or 2SA1175 (F. E)
2SA1048 (Y. GR) or 2SA1309A (Q. R)

Q3, 4 :2SC2878 (B)
Q5, 6 :2SA1845 (F. E)
Q7 :2SC3940A (R, S)
Q8, 10 :2SA1534A (R, S)

Q11 :UN4212orDTC124ES
D1, 2, 6~10 :S5688Bor1SR139-100
19, 31
D3, 4, 32 :RD8. 2ES (B2) or HZS8. 2N (B2)

D11~16 :HSS104A or 1SS131
20~25, 29
30, 35~38
D17 :RD5. 1ES (B2) or HZS5. 1N (B2)

D18 :
D26 :
D27 :
D33 :


(K, P) (MALAYSIA MADE)
X11-(B/3)
X11-C/3
CD Rch
CD Lch
DUAL S IN Rch
DUAL S IN Lch
IC7 1/2
IC7 2/2
IC8 1/2
IC8 2/2
Q11
CN6
CN5
CN1
CN8
CN7
IC13
VR1 (1/2)
MAIN VOL
IC14 (1/2)
IC14 (2/2)
+5.6V AVR
IC18
IC10
IC6
Q10
IC15 (1/2)
IC15 (2/2)
VR2 200K (B)
BAL
VR3
N. B. CIR
IC16 (1/2)
IC16 (2/2)
MIC
IC17 (1/2)
IC17 (2/2)
VR6 100K×2
DUAL SOUND
IC12 1/2
IC12 2/2
DUAL SOUND
AUTO
TUNED
STEREO
CD REC
MEMORY
SUN
MON
TUE
WED
THU
FRI
SAT
PROG.
CN51
CN52
CN53
IC50 (BOTTOM VIEW)
CP1 100K×4
X1

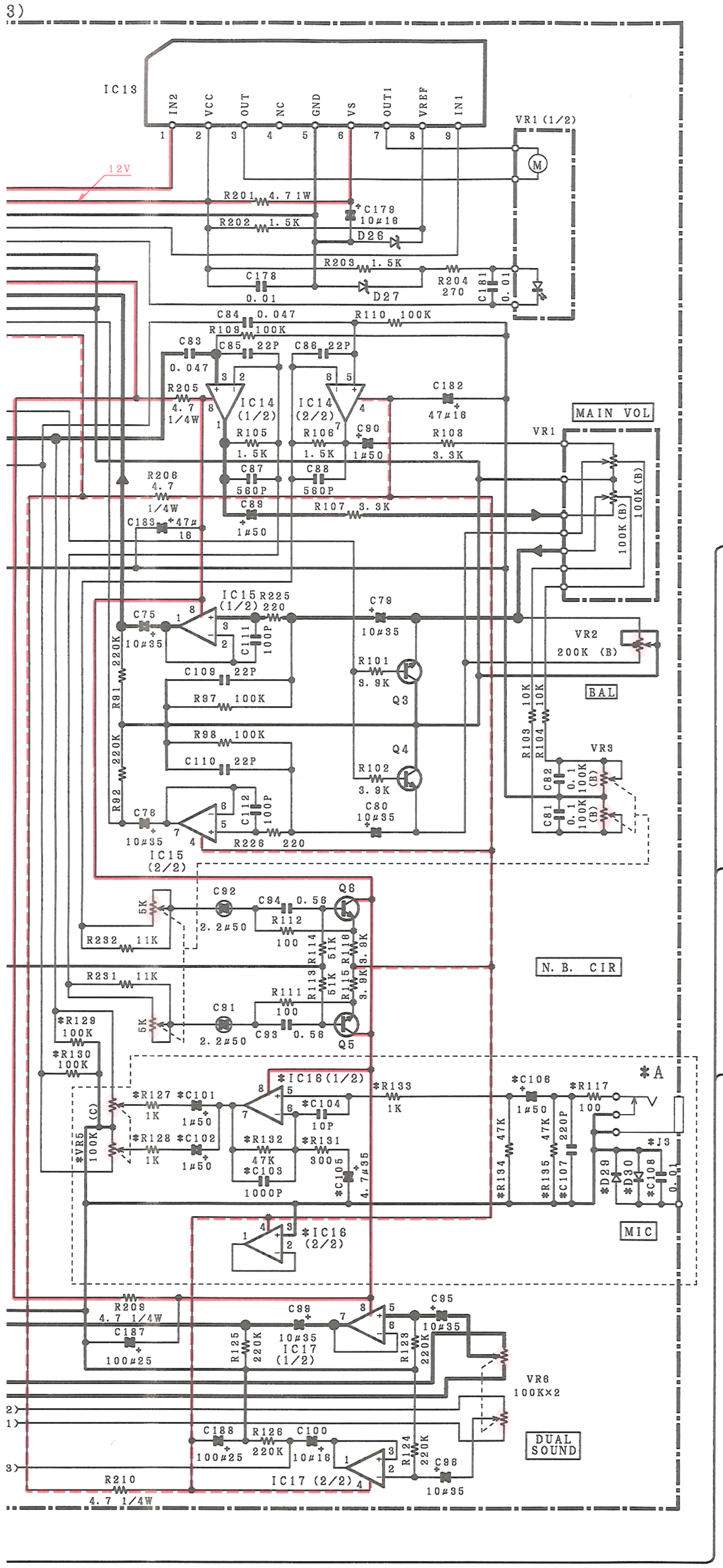
IC50 :CXP50116-532Q
IC51 :S-80740AL or MN1381-R (TA)

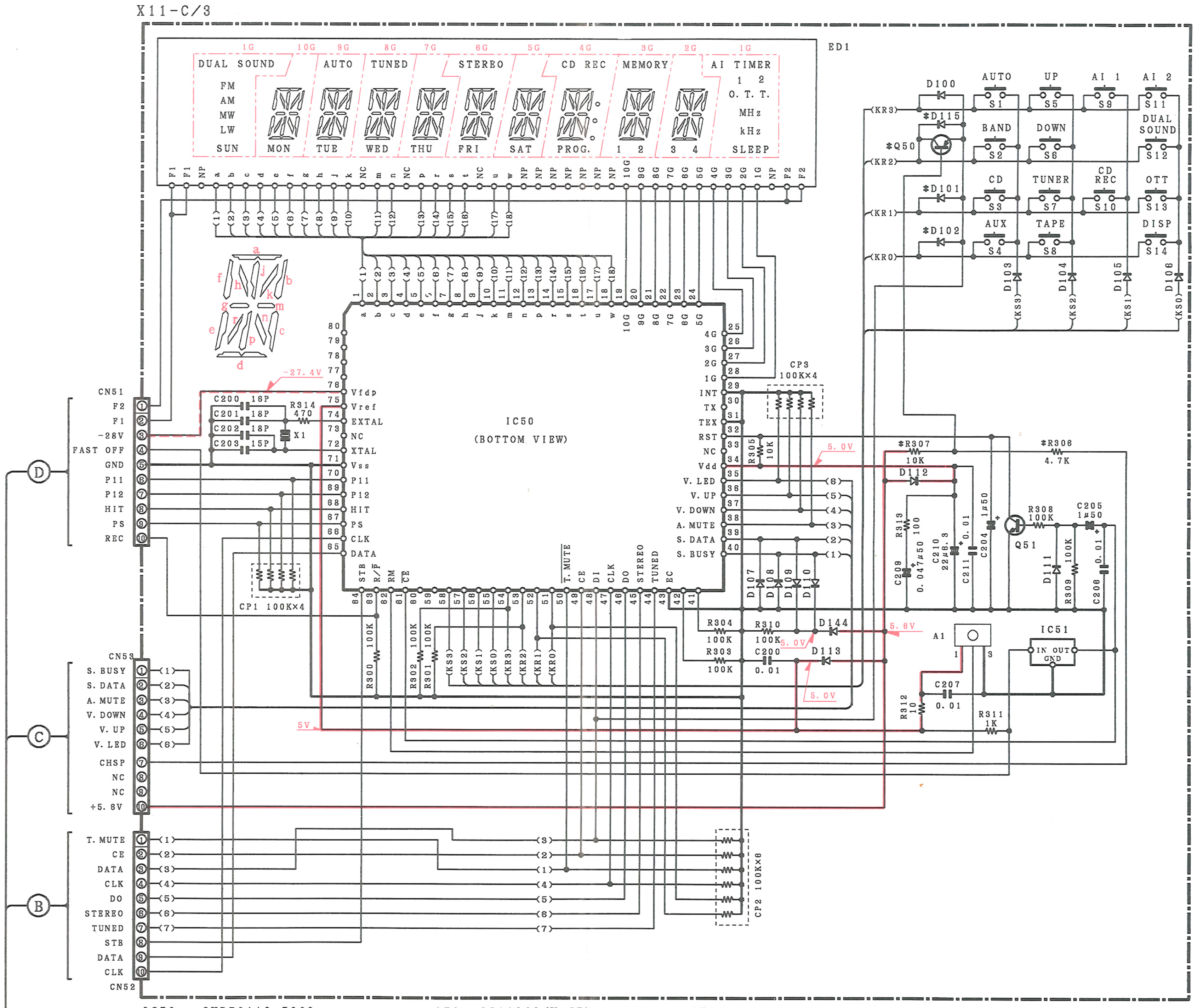
Q50 :2SA1048 (Y, GR) or
2SA1309A (Q, R) (J MADE)
:2SA933S (Q, R) or
2SA1175 (F, E) (S MADE)

X-11 A/3, B/3, C/3

| | COUNTRY | ABB | Ref. NO. UNIT NAME | A, B | R129 R130 | D1 |
|---|---|---|---|---|---|---|
| JAPAN MADE | CANADA | P | X11-3460-11 | NO | YES | N |
| | AAFES (EUROPE)<br>PX (FAR EAST, HAWAII)<br>OTHER AREAS | Y<br>Y<br>M | X11-3460-21 | YES | NO | Y |
| | AUSTRALIA | X | X11-3460-71 | YES | NO | N |
| SINGAPORE MADE | USA<br>CANADA | K<br>P | X11-3470-10 | NO | YES | N |
| | AAFES (EUROPE)<br>PX (FAR EAST, HAWAII)<br>OTHER AREAS | Y<br>Y<br>M | X11-3470-21 | YES | NO | Y |
| | AUSTRALIA | X | X11-3470-71 | YES | NO | N |
| | ENGLAND<br>EUROPE | T<br>E | X11-3470-70 | NO | YES | N |
| MALAYSIA MADE | USA<br>CANADA | K<br>P | X11-3470-10 | NO | YES | N |

(F. E) Q3, 4 :2SC2878 (B) Q11 :UN4212orDTC124ES D11~16 :HSS104A or 1SS131 D18 :RD11ES (B2) or HZS11N (B2) D34 :RD15ES (B) or HZS15N (B)
A (Q. R) Q5, 6 :2SA1845 (F. E) D1, 2, 6~10 :S5688Bor1SR139-100 20~25, 29 D26 :RD3. 9ES (B2) or HZS3. 9N (B2) D40~42 :MA177
(F. E) Q7 :2SC3940A (R, S) 19, 31 30, 35~38 D27 :RD3. 3ES (B2) or HZS3. 3N (B2)
A (Q. R) Q8, 10 :2SA1534A (R, S) D3, 4, 32 :RD8. 2ES (B2) or HZS8. 2N (B2) D17 :RD5. 1ES (B2) or HZS5. 1N (B2) D33 :RD13ES (B2) or HZS13N (B2)


IC13
VR1 (1/2)
12V
R201 4.7 1W
R202 1.5K
R203 1.5K
C178
D26
D27
C84 0.047
R109 100K
R110 100K
C83
C85 22P
C86 22P
IC14 (1/2)
IC14 (2/2)
C182
MAIN VOL
VR1
IC15 (1/2)
IC15 (2/2)
R225 220
VR2 200K (B)
BAL
Q3
Q4
VR3
Q6
Q5
N. B. CIR
*IC16 (1/2)
*IC16 (2/2)
MIC
*A
IC17 (1/2)
IC17 (2/2)
VR6 100K×2
DUAL SOUND
R210 4.7 1/4W


X11-C/3
ED1
DUAL SOUND
AUTO
TUNED
STEREO
CD REC
MEMORY
AI TIMER
FM AM MW LW
SUN MON TUE WED THU FRI SAT PROG.
SLEEP
IC50 (BOTTOM VIEW)
CN51
F2 F1 -28V FAST OFF GND P11 P12 HIT PS REC
CN53
S. BUSY S. DATA A. MUTE V. DOWN V. UP V. LED CHSP NC NC +5. 8V
T. MUTE CE DATA CLK DO STEREO TUNED STB DATA CLK
CN52
CP1 100K×4
CP2 100K×6
CP3 100K×4
-27. 4V
5. 0V
5. 8V
5V
IC51
A1
Q50
Q51
AUTO S1
UP S5
AI 1 S9
AI 2 S11
BAND S2
DOWN S6
DUAL SOUND S12
CD S3
TUNER S7
CD REC S10
OTT S13
AUX S4
TAPE S8
DISP S14
D
C
B

IC50 :CXP50116-532Q
IC51 :S-80740AL or MN1381-R(TA)
Q50 :2SA1048(Y, GR) or
2SA1309A(Q, R) (J MADE)
:2SA933S(Q, R) or
2SA1175(F, E) (S MADE)
Q51 :2SC4038(Q, R)
D100~115 :HSS104A or 1SS131
ED1 :FIP9DM5R

X-11 A/3, B/3, C/3

| | COUNTRY | ABB | Ref. NO.<br>UNIT NAME | A, B | R129<br>R130 | D101 | D102 | D115 | Q50 | R206, 207 | R5, R6 | L1, L2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JAPAN MADE | CANADA | P | X11-3460-11 | NO | YES | NO | NO | NO | NO | NO | YES | NO |
| | AAFES(EUROPE)<br>PX(FAR EAST, HAWAII)<br>OTHER AREAS | Y<br>Y<br>M | X11-3460-21 | YES | NO | YES | NO | NO | YES | YES | YES | NO |
| | AUSTRALIA | X | X11-3460-71 | YES | NO | NO | NO | YES | NO | NO | YES | NO |
| SINGAPORE MADE | USA<br>CANADA | K<br>P | X11-3470-10 | NO | YES | NO | NO | NO | NO | NO | YES | NO |
| | AAFES(EUROPE)<br>PX(FAR EAST, HAWAII)<br>OTHER AREAS | Y<br>Y<br>M | X11-3470-21 | YES | NO | YES | NO | NO | YES | YES | YES | NO |
| | AUSTRALIA | X | X11-3470-71 | YES | NO | NO | NO | YES | NO | NO | YES | NO |
| | ENGLAND<br>EUROPE | T<br>E | X11-3470-70 | NO | YES | NO | YES | YES | NO | NO | NO | YES |
| MALAYSIA MADE | USA<br>CANADA | K<br>P | X11-3470-10 | NO | YES | NO | NO | NO | NO | NO | YES | NO |

RD11ES(B2) or HZS11N(B2)
RD3.9ES(B2) or HZS3.9N(B2)
RD3.3ES(B2) or HZS3.3N(B2)
RD13ES(B2) or HZS13N(B2)

D34 :RD15ES(B) or HZS15N(B)
D40~42 :MA177

SIGNAL LINE
GND LINE
+B LINE
-B LINE

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

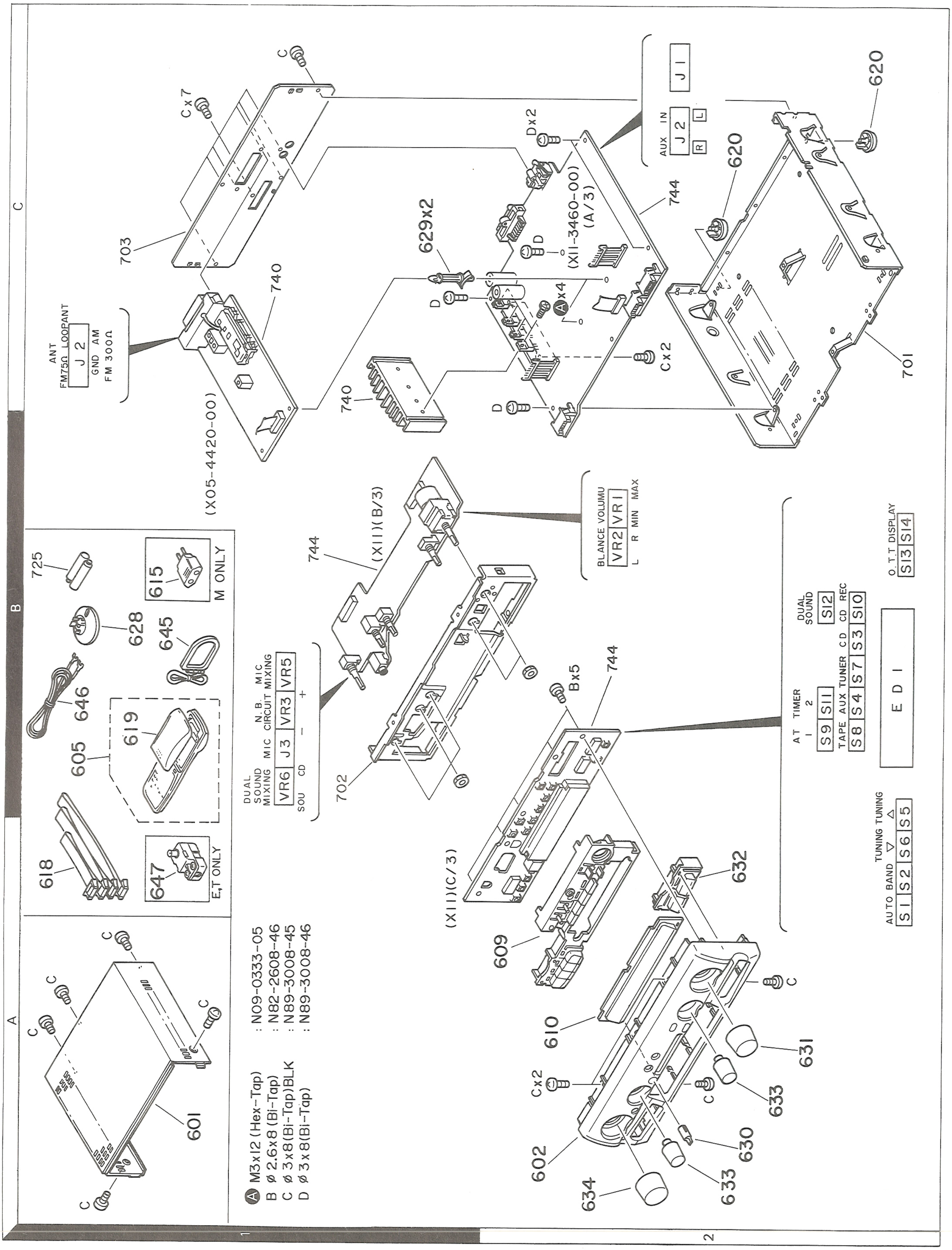
2/2

# C-B5/L

KENWOOD

Y05-2810-10

# EXPLODED VIEW (UNIT)


C
Cx7
703
740
ANT
FM75Ω LOOPANT
J2
GND AM
FM 300Ω
(X05-4420-00)
740
D
629x2
D
Ⓐx4
Dx2
(X11-3460-00)
(A/3)
744
Cx2
D
AUX IN
J2
R
L
J1
620
620
701
725
628
615
M ONLY
645
646
605
619
618
647
E,T ONLY
744
(X11)(B/3)
BLANCE VOLUMU
VR2
VR1
L R MIN MAX
DUAL SOUND MIXING
MIC
N.B. CIRCUIT
MIC MIXING
VR6
J3
VR3
VR5
SOU CD
– +
702
Bx5
744
AT TIMER
1 2
S9
S11
TAPE AUX TUNER CD CD REC
S8
S4
S7
S3
S10
DUAL SOUND
S12
O.T.T DISPLAY
S13
S14
E D I
TUNING TUNING
▽ △
AUTO BAND
S1
S2
S6
S5
(X11)(C/3)
632
609
C
610
631
Cx2
C
633
630
633
602
634
601
C
C
C
C
C
A
B
C
1
2

| | | |
|---|---|---|
| Ⓐ | M3x12 (Hex-Tap) | : N09-0333-05 |
| B | ø 2.6x8 (Bi-Tap) | : N82-2608-46 |
| C | ø 3x8 (Bi-Tap)BLK | : N89-3008-45 |
| D | ø 3x8 (Bi-Tap) | : N89-3008-46 |

**Parts with the exploded numbers larger than 700 are not supplied.**

# C-B5/L

# PARTS LIST

## UNIT LIST

| Destination | | TUNER UNIT | CONTROL UNIT |
|---|---|---|---|
| JAPAN MADE | J | X05-4420-00 | X11-3460-00 |
| | P | X05-4420-11 | X11-3460-11 |
| | Y | X05-4420-21 | X11-3460-21 |
| | M | X05-4420-21 | X11-3460-21 |
| | X | X05-4420-71 | X11-3460-71 |
| SINGAPORE MADE | K | X05-4460-11 | X11-3470-10 |
| | P | X05-4460-11 | X11-3470-10 |
| | Y | X05-4460-21 | X11-3470-21 |
| | M | X05-4460-21 | X11-3470-21 |
| | X | X05-4460-71 | X11-3470-71 |
| | T | X05-4462-70 | X11-3472-71 |
| | E | X05-4462-70 | X11-3472-71 |
| MALAYSIA MADE | K | X05-4460-11 | X11-3470-10 |
| | P | X05-4460-11 | X11-3470-10 |

The parts without described for "W" in Malasian made same as Singapore made.

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

NO.1

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| C-B5/L | | | | | | |
| 601 | 1A | * | A01-2955-01 | METALLIC CABINET | | J |
| 601 | 1A | | A01-2963-01 | METALLIC CABINET | | S |
| 602 | 2A | * | A60-0438-21 | PANEL | MXY | J |
| 602 | 2A | * | A60-0439-21 | PANEL | P | J |
| 602 | 2A | * | A60-0468-21 | PANEL | KP | S |
| 602 | 2A | * | A60-0469-21 | PANEL | MXY | S |
| 602 | 2A | * | A60-0506-21 | PANEL | TE | S |
| 605 | 1B | * | X94-1050-51 | REMOTE CONTROL ASSY UNIT | | |
| 619 | 1B | * | F07-0721-23 | BATTERY COVER | | |
| 609 | 2A | * | B01-0511-02 | PANEL ESCUTCHEON | | S |
| 609 | 2A | * | B01-0512-02 | PANEL ESCUTCHEON | | J |
| 610 | 2A | * | B10-1982-03 | FRONT GLASS | | J |
| 610 | 2A | * | B10-1996-03 | FRONT GLASS | | S |
| - | | | B46-0094-03 | WARRANTY CARD | Y | |
| - | | | B46-0095-03 | WARRANTY CARD | Y | |
| - | | | B46-0096-33 | WARRANTY CARD | X | |
| - | | * | B46-0121-33 | WARRANTY CARD | P | |
| - | | | B46-0307-13 | WARRANTY CARD | K | S |
| - | | | B46-0310-03 | WARRANTY CARD | TE | S |
| - | | * | B60-1251-00 | INSTRUCTION MANUAL (ENGLISH) | | |
| - | | * | B60-1252-00 | INSTRUCTION MANUAL (FRENCH) | P | |
| - | | | B60-1253-00 | INSTRUCTION MANUAL (SPANISH) | ME | |
| - | | * | B60-1254-00 | INSTRUCTION MANUAL (ARABIC) | M | |
| - | | * | B60-1255-00 | INSTRUCTION MANUAL (CHINESE) | M | |
| - | | * | B60-1256-00 | INSTRUCTION MANUAL (GERMAN) | E | S |
| - | | * | B60-1257-00 | INSTRUCTION MANUAL (DUTCH) | E | S |
| - | | * | B60-1258-00 | INSTRUCTION MANUAL (ITALIAN) | E | S |
| ⚠ 615 | 1B | | E03-0115-05 | AC PLUG ADAPTER | M | |
| 618 | 1A | * | E30-2738-05 | CORD WITH CONNECTOR | | |
| | | * | H50-0710-04 | ITEM CARTON CASE | | J |
| | | * | H50-0711-04 | ITEM CARTON CASE | M | S |
| | | * | H50-0737-04 | ITEM CARTON CASE | KPXY | S |
| | | * | H50-0738-04 | ITEM CARTON CASE | TE | S |
| | | * | H50-0740-04 | ITEM CARTON CASE | | W |
| - | | * | H10-5541-02 | POLYSTYRENE FOAMED FIXTURE L | | J |
| - | | * | H10-5542-02 | POLYSTYRENE FOAMED FIXTURE R | | J |
| - | | * | H10-5566-02 | POLYSTYRENE FOAMED FIXTURE L | | S |
| - | | * | H10-5567-02 | POLYSTYRENE FOAMED FIXTURE R | | S |
| - | | * | H10-5579-02 | POLYSTYRENE FOAMED FIXTURE L | | W |
| - | | * | H10-5580-02 | POLYSTYRENE FOAMED FIXTURE R | | W |
| - | | | H13-0039-04 | CARTON BOARD | | J |
| - | | | H13-0086-04 | CARTON BOARD | | S |
| - | | | H25-0632-24 | PROTECTION BAG | | |
| - | | | H25-0644-04 | PROTECTION BAG (0632 PRINTED) | T | S |
| - | | | H25-0681-04 | PROTECTION BAG | | |
| 620 | 2C | | J02-0370-05 | FOOT | | |
| 628 | 1B | | J19-2815-04 | ANTENNA HOLDER | | |
| 629 | 1C | | J19-3330-15 | UNIT HOLDER | | |
| 630 | 2A | | K29-3741-04 | KNOB MIC MIXING | MXY | |
| 631 | 2A | * | K29-5764-03 | KNOB VOLUME | | |
| 632 | 2A | * | K29-5765-03 | KNOB O.T.T.DISPLAY | | |

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

J:JAPAN MADE
S:SINGAPORE MADE
W:MALAYSIA MADE

⚠ indicates safety critical components.

# PARTS LIST

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

NO.2

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| 633 | 2A | ⁎ | K29-5795-04 | KNOB N.B CIRCUIT,BALANCE | | |
| 634 | 2A | ⁎ | K29-5805-14 | KNOB DUAL SOUND | | |
| B | 2B | | N82-2608-46 | BINDING HEAD TAPTITE SCREW | | |
| C | 1A,2A | | N89-3008-45 | BINDING HEAD TAPTITE SCREW | | |
| D | 1C,2C | | N89-3008-46 | BINDING HEAD TAPTITE SCREW | | |
| 645 | 1B | | T90-0173-05 | LOOP ANTENNA | | |
| 645 | 1B | | T90-0174-05 | LOOP ANTENNA | | |
| 646 | 1B | | T90-0175-05 | T TYPE ANTENNA | | S |
| 646 | 1B | | T90-0176-05 | T TYPE ANTENNA | | J |
| 647 | 1A | | T90-0185-05 | ANTENNA ADAPTOR | TE | S |
| **TUNER UNIT (X05-442X-XX):JAPAN MADE** | | | | | | |
| C1 ,2 | | | CK73FB1H103K | CHIP C 0.010UF K | KPMXY | |
| C4 | | | CE04KW1A470M | ELECTRO 47UF 10WV | KPMXY | J |
| C4 | | | CE04LW1A470M | ELECTRO 47UF 10WV | KPMXY | S |
| C5 | | | CK73FB1H103K | CHIP C 0.010UF K | KPMXY | |
| C8 | | | CK73FB1H103K | CHIP C 0.010UF K | KPMXY | |
| C10 | | | CK73FB1H122K | CHIP C 1200PF K | KPMXY | |
| C11 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | KPMXY | J |
| C11 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | KPMXY | S |
| C13 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | KPMXY | J |
| C13 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | KPMXY | S |
| C14 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | KPMXY | J |
| C14 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | KPMXY | S |
| C21 ,22 | | | CF92FV1H163J | MF 0.016UF J | MXY | |
| C21 ,22 | | | CF92FV1H243J | MF 0.024UF J | KP | |
| C23 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | KPMXY | J |
| C23 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | KPMXY | S |
| C24 | | | CE04KW1H3R3M | ELECTRO 3.3UF 50WV | KPMXY | J |
| C24 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | KPMXY | S |
| C25 | | | CE04KW1V100M | ELECTRO 10UF 35WV | KPMXY | J |
| C25 | | | CE04LW1V100M | ELECTRO 10UF 35WV | KPMXY | S |
| C27 | | | CK73FB1E473K | CHIP C 0.047UF K | KPMXY | |
| C28 | | | CE04KW1V100M | ELECTRO 10UF 35WV | KPMXY | J |
| C28 | | | CE04LW1V100M | ELECTRO 10UF 35WV | KPMXY | S |
| C31 | | | CE04KW1A470M | ELECTRO 47UF 10WV | KPMXY | J |
| C31 | | | CE04LW1A470M | ELECTRO 47UF 10WV | KPMXY | S |
| C32 | | | CK73FB1H103K | CHIP C 0.010UF K | KPMXY | |
| C33 | | | CC73FCH1H270J | CHIP C 27PF J | KPMXY | |
| C34 | | | CC73FCH1H220J | CHIP C 22PF J | KPMXY | |
| C35 -38 | | | CK73FB1H471K | CHIP C 470PF K | KPMXY | |
| C39 | | | CE04KW1C470M | ELECTRO 47UF 16WV | KPMXY | J |
| C39 | | | CE04LW1C470M | ELECTRO 47UF 16WV | KPMXY | S |
| C40 | | | CK73FB1H223K | CHIP C 0.022UF K | KPMXY | |
| C41 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | KPMXY | J |
| C41 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | KPMXY | S |
| C42 ,43 | | | CK73FB1H103K | CHIP C 0.010UF K | KPMXY | |
| C50 | | | C91-0769-05 | CERAMIC 0.01UF K | KPMXY | |
| C51 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | KPMXY | J |
| C51 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | KPMXY | S |
| C52 | | | CE04KW1C470M | ELECTRO 47UF 16WV | KPMXY | J |
| C52 | | | CE04LW1C470M | ELECTRO 47UF 16WV | KPMXY | S |
| C57 | | | CC73FSL1H220J | CHIP C 22PF J | KPMXY | |
| C65 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | KPMXY | J |
| C65 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | KPMXY | S |

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

J:JAPAN MADE
S:SINGAPORE MADE
W:MALAYSIA MADE

⚠ indicates safety critical components.

The parts without described for "W"in Malaysia made same as Singapore made.

⁎ New Parts
Parts without Parts No. are not supplied.
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Teile ohne Parts No. werden nicht geliefert.

NO.3

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| C66 | | | CK73FB1H102K | CHIP C 1000PF K | KPMXY | |
| C71 | | | CE04KW1V100M | ELECTRO 10UF 35WV | KPMXY | J |
| C71 | | | CE04LW1V100M | ELECTRO 10UF 35WV | KPMXY | S |
| C72 | | | CE04KW1C470M | ELECTRO 47UF 16WV | KPNXY | J |
| C72 | | | CE04LW1C470M | ELECTRO 47UF 16WV | KPMXY | S |
| C103-106 | | | CE04KW1HR47M | ELECTRO 0.47UF 50WV | KPMXY | J |
| C103-106 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | KPMXY | S |
| C107 | | | CK73FB1E473K | CHIP C 0.047UF K | KPMXY | |
| C112 | | | CC73FSL1H101J | CHIP C 100PF J | KPMXY | |
| C114 | | | CK73FB1H681K | CHIP C 680PF K | KPMXY | |
| C115,116 | | | CC73FSL1H101J | CHIP C 100PF J | KPMXY | |
| C121,122 | | | CE04KW1C470M | ELECTRO 47UF 16WV | KPMXY | J |
| C121,122 | | | CE04LW1C470M | ELECTRO 47UF 16WV | KPMXY | S |
| C135,136 | | | CF92FV1H682J | MF 6800PF J | MY | |
| C182 | | | CC73FSL1H150J | CHIP C 15PF J | KPMXY | |
| J1 | | | E20-0476-05 | LOCK TERMINAL BOARD ANTENNA | KPMXY | |
| CF1 ,2 | | | L72-0531-05 | CERAMIC FILTER | KPMXY | |
| CF3 | | | L72-0574-05 | CERAMIC FILTER | KPMXY | |
| L7 | | | L30-0467-05 | AM IFT | KPMXY | |
| L10 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | KPMXY | |
| L11 | | | L40-1021-14 | SMALL FIXED INDUCTOR(1.0MH,K) | KPMXY | |
| L12 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | KPMXY | |
| L103 | | | L39-1309-05 | COMBINATION COIL | KPMXY | |
| L106 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | KPMXY | |
| X1 | | | L77-1122-05 | CRYSTAL RESONATOR(7.2MHZ) | KPMXY | |
| X2 | | | L78-0295-05 | RESONATOR (19KHZ) | KPMXY | |
| R11 | | | RS14KB3A820J | FL-PROOF RS 82 J 1W | KPMXY | |
| R31 | | | RS14KB3D221J | FL-PROOF RS 220 J 2W | KPMXY | |
| R42 | | | RD14NB2E101J | RD 100 J 1/4W | KPMXY | |
| R111 | | | RD14NB2E470J | RD 47 J 1/4W | KPMXY | |
| R127,128 | | | RD14NB2E101J | RD 100 J 1/4W | KPMXY | |
| W46 | | | R92-0670-05 | CHIP R 0 OHM | KPMXY | |
| W48 | | | R92-0670-05 | CHIP R 0 OHM | KPMXY | |
| S101 | | | S62-0034-05 | SLIDE SWITCH DE EMPHASIS | MY | |
| D3 | | | HZS5.1N(B2) | ZENER DIODE | KPMXY | |
| D3 | | | RD5.1ES(B2) | ZENER DIODE | KPMXY | |
| D4 | | | HZS3.3N(B2) | ZENER DIODE | KPMXY | |
| D4 | | | RD3.3ES(B2) | ZENER DIODE | KPMXY | |
| D7 | | | MA110 | DIODE | KPMXY | |
| D8 ,9 | | | HSS104 | DIODE | KPMXY | |
| D8 ,9 | | | 1SS133 | DIODE | KPMXY | |
| D11 | | | HZS8.2N(B2) | ZENER DIODE | KPMXY | |
| D11 | | | RD8.2ES(B2) | ZENER DIODE | KPMXY | |
| D111,112 | | | MA110 | DIODE | KPMXY | |
| IC1 | | | LA1831 | IC(AM/FM TUNER) | KPMXY | |
| IC2 | | | LC7218 | IC(PLL SYNTHESIZER) | KPMXY | |
| IC12 | | | NJM4565D | IC(OP AMP X2) | KPMXY | |
| Q1 | | | 2SC2714(R,O) | TRANSISTOR | KPMXY | |
| Q2 | | | 2SC1845(F,E) | TRANSISTOR | KPMXY | J |
| Q3 | | | 2SC1740S(Q,R) | TRANSISTOR | KPMXY | S |
| Q3 | | | 2SC2458(Y,GR) | TRANSISTOR | KPMXY | J |
| Q3 | | | 2SC2785(F,E) | TRANSISTOR | KPMXY | S |
| Q3 | | | 2SC3311A(Q,R) | TRANSISTOR | KPMXY | J |

L:Scandinavia K:USA P:Canada
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Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

# C-B5/L

## PARTS LIST

⁎ New Parts
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Teile ohne Parts No. werden nicht geliefert.

NO.4

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| Q7 | | | 2SC2412K | TRANSISTOR | KPMXY | |
| Q11 | | | 2SD863(E,F) | TRANSISTOR | KPMXY | |
| Q102 | | | 2SA1037K | TRANSISTOR | KPMXY | |
| Q104 | | | 2SA1037K | TRANSISTOR | KPMXY | |
| Q107-110 | | | 2SC2412K | TRANSISTOR | MY | |
| Q109,110 | | | 2SC2412K | TRANSISTOR | KPX | |
| Q111 | | | 2SA1037K | TRANSISTOR | KPMXY | |
| DT1 | | | W02-1167-05 | FM FRONT-END ASSY | KPMXY | |

### TUNER UNIT (X05-447X-XX)

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| C1 ,2 | | | CK73FB1H103K | CHIP C 0.010UF K | TE | S |
| C4 | | | CE04LW1C470M | ELECTRO 47UF 16WV | TE | S |
| C5 | | | CK73FB1H223K | CHIP C 0.022UF K | TE | S |
| C6 | | | CK73FB1E473K | CHIP C 0.047UF K | TE | S |
| C7 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | TE | S |
| C8 | | | CK73FB1H682K | CHIP C 6800PF K | TE | S |
| C9 | | | CK73FB1H103K | CHIP C 0.010UF K | TE | S |
| C10 | | | CC73FSL1H330J | CHIP C 33PF J | TE | S |
| C11 | | | CE04LW1V100M | ELECTRO 10UF 35WV | TE | S |
| C12 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | TE | S |
| C13 | | | CE04LW1HR33M | ELECTRO 0.33UF 50WV | TE | S |
| C14 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | TE | S |
| C15 | | | CK73FB1H103K | CHIP C 0.010UF K | TE | S |
| C16 | | | C91-0769-05 | CERAMIC 0.01UF K | TE | S |
| C17 | | | CK73FB1H223K | CHIP C 0.022UF K | TE | S |
| C21 ,22 | | | CK73FB1H682K | CHIP C 6800PF K | TE | S |
| C23 | | | CE04LW1V100M | ELECTRO 10UF 35WV | TE | S |
| C25 | | | CE04LW1V100M | ELECTRO 10UF 35WV | TE | S |
| C27 | | | CE04LW1V100M | ELECTRO 10UF 35WV | TE | S |
| C28 | | | CK73FB1E473K | CHIP C 0.047UF K | TE | S |
| C31 | | | CE04LW1A470M | ELECTRO 47UF 10WV | TE | S |
| C32 | | | CK73FB1H103K | CHIP C 0.010UF K | TE | S |
| C33 | | | CC73FCH1H270J | CHIP C 27PF J | TE | S |
| C34 | | | CC73FCH1H220J | CHIP C 22PF J | TE | S |
| C35 -38 | | | CK73FB1H471K | CHIP C 470PF K | TE | S |
| C39 | | | CE04LW1C470M | ELECTRO 47UF 16WV | TE | S |
| C40 | | | CQ92FM1H223J | MYLAR 0.022UF J | TE | S |
| C41 | | | CE04HW1H2R2M | NP-ELEC 2.2UF 50WV | TE | S |
| C42 ,43 | | | CK73FB1H103K | CHIP C 0.010UF K | TE | S |
| C45 ,46 | | | CE04LW1V100M | ELECTRO 10UF 35WV | TE | S |
| C47 ,48 | | | CE04LW1H0R1M | ELECTRO 0.1UF 50WV | TE | S |
| C50 | | | C91-0769-05 | CERAMIC 0.01UF K | TE | S |
| C51 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | TE | S |
| C52 | | | CE04LW1C470M | ELECTRO 47UF 16WV | TE | S |
| C57 | | | CC73FCH1H220J | CHIP C 22PF J | TE | S |
| C58 ,59 | | | CK73FB1H472K | CHIP C 4700PF K | TE | S |
| C65 | | | CE04LW1H101M | ELECTRO 100UF 50WV | TE | S |
| C66 | | | C91-0769-05 | CERAMIC 0.01UF K | TE | S |
| C72 | | | CE04LW1C470M | ELECTRO 47UF 16WV | TE | S |
| C107 | | | CK73FB1E473K | CHIP C 0.047UF K | TE | S |
| C121,122 | | | CE04LW1C470M | ELECTRO 47UF 16WV | TE | S |
| C123 | | | CE04LW1H0R1M | ELECTRO 0.1UF 50WV | TE | S |
| C182 | | | CC73FSL1H150J | CHIP C 15PF J | TE | S |
| J1 | | | E20-0321-05 | LOCK TERMINAL BOARD ANTENNA | TE | S |

L:Scandinavia K:USA P:Canada
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⚠ indicates safety critical components.

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Teile ohne Parts No. werden nicht geliefert.

NO.5

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| CF1 ,2 | | | L72-0536-05 | CERAMIC FILTER | TE | S |
| L1 ,2 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | TE | S |
| L3 | | | L30-0496-05 | FM IFT | TE | S |
| L4 | | | L30-0497-05 | FM IFT | TE | S |
| L5 | | | L79-0125-05 | LC FILTER | TE | S |
| L7 | | | L30-0467-05 | AM IFT | TE | S |
| L8 ,9 | | | L79-0790-05 | LC FILTER | TE | S |
| L10 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | TE | S |
| L103 | | | L39-1310-05 | COMBINATION COIL | TE | S |
| L106 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | TE | S |
| X1 | | | L77-1122-05 | CRYSTAL RESONATOR(7.2MHZ) | TE | S |
| X2 | | | L78-0295-05 | RESONATOR (19KHZ) | TE | S |
| R31 | | | RS14KB3D221J | FL-PROOF RS 220 J 2W | TE | S |
| R42 | | | RD14NB2E101J | RD 100 J 1/4W | TE | S |
| R111 | | | RD14NB2E470J | RD 47 J 1/4W | TE | S |
| R127,128 | | | RD14NB2E101J | RD 100 J 1/4W | TE | S |
| VR1 | | | R12-3686-05 | TRIMMING POT.(22K) | TE | S |
| VR2 | | | R12-3685-05 | TRIMMING POT.(10K) | TE | S |
| VR3 | | | R12-1619-05 | TRIMMING POT.(4.7K) | TE | S |
| W101-103 | | | R92-0670-05 | CHIP R 0 OHM | TE | S |
| W200-207 | | | R92-0679-05 | CHIP R 0 OHM | TE | S |
| W211 | | | R92-0679-05 | CHIP R 0 OHM | TE | S |
| D3 | | | HZS5.1N(B2) | ZENER DIODE | TE | S |
| D3 | | | RD5.1ES(B2) | ZENER DIODE | TE | S |
| D4 | | | HZS3.3N(B2) | ZENER DIODE | TE | S |
| D4 | | | RD3.3ES(B2) | ZENER DIODE | TE | S |
| D5 | | | HSS104 | DIODE | TE | S |
| D5 | | | 1SS133 | DIODE | TE | S |
| D11 | | | HZS8.2N(B2) | ZENER DIODE | TE | S |
| D11 | | | RD8.2ES(B2) | ZENER DIODE | TE | S |
| D111,112 | | | HSS104 | DIODE | TE | S |
| D111,112 | | | 1SS133 | DIODE | TE | S |
| IC1 | | | LA1851N | IC(AM,FM TUNER) | TE | S |
| IC2 | | | LC7218 | IC(PLL SYNTHESIZER) | TE | S |
| IC3 | | | NJM4565D | IC(OP AMP X2) | TE | S |
| Q1 | | | 2SC2714(R,O) | TRANSISTOR | TE | S |
| Q2 | | | 2SC1845(F,E) | TRANSISTOR | TE | S |
| Q3 ,4 | | | 2SC2412K | TRANSISTOR | TE | S |
| Q5 | | | 2SA1037K | TRANSISTOR | TE | S |
| Q7 | | | 2SC2412K | TRANSISTOR | TE | S |
| Q11 | | | 2SD863(E,F) | TRANSISTOR | TE | S |
| Q102,103 | | | 2SA1037K | TRANSISTOR | TE | S |
| Q109,110 | | | 2SC2412K | TRANSISTOR | TE | S |
| Q111 | | | 2SA1037K | TRANSISTOR | TE | S |
| Q113,114 | | | 2SC2412K | TRANSISTOR | TE | S |
| Q116 | | | 2SC2412K | TRANSISTOR | TE | S |
| DT1 | | | W02-1166-05 | FM FRONT-END ASSY | TE | S |

### CONTROL UNIT(X11-346X-XX)

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| C1 ,2 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C3 ,4 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C5 ,6 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C7 ,8 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C7 ,8 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |

L:Scandinavia K:USA P:Canada
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J:JAPAN MADE
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⚠ indicates safety critical components.

# PARTS LIST

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NO.6

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕向 | Re- marks 備考 |
|---|---|---|---|---|---|---|
| C9 ,10 | | | CF92FV1H102J | MF 1000PF J | | |
| C11 ,12 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C11 ,12 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C13 ,14 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C15 -18 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C15 -18 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C19 ,20 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C21 -24 | | | CE04KW1V100M | ELECTRO 10UF 35WV | MXY | J |
| C21 -24 | | | CE04LW1V100M | ELECTRO 10UF 35WV | MXY | S |
| C21 ,22 | | | CE04KW1V100M | ELECTRO 10UF 35WV | P | J |
| C21 ,22 | | | CE04LW1V100M | ELECTRO 10UF 35WV | KPTE | S |
| C25 | | | CE04KW1C470M | ELECTRO 47UF 16WV | MXY | J |
| C25 | | | CE04LW1C470M | ELECTRO 47UF 16WV | MXY | S |
| C28 | | | CF92FV1H104J | MF 0.10UF J | MXY | |
| C29 -31 | | | CE04KW1V100M | ELECTRO 10UF 35WV | MXY | J |
| C29 -31 | | | CE04LW1V100M | ELECTRO 10UF 35WV | MXY | S |
| C30 ,31 | | | CE04KW1V100M | ELECTRO 10UF 35WV | P | J |
| C30 ,31 | | | CE04LW1V100M | ELECTRO 10UF 35WV | KPTE | S |
| C32 ,33 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C35 ,36 | | | CF92FV1H104J | MF 0.10UF J | | |
| C37 ,38 | | | CF92FV1H474J | MF 0.47UF J | | |
| C39 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |
| C39 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C40 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | J |
| C40 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | S |
| C41 | | | CF92FV1H474J | MF 0.47UF J | | |
| C42 | | | CF92FV1H333J | MF 0.033UF J | | |
| C43 ,44 | | | CF92FV1H682J | MF 6800PF J | | |
| C47 ,48 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | J |
| C47 ,48 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | S |
| C49 ,50 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C49 ,50 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C53 ,54 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C53 ,54 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C55 ,56 | | | CE04KW1H3R3M | ELECTRO 3.3UF 50WV | | J |
| C55 ,56 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | | S |
| C57 ,58 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | J |
| C57 ,58 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | S |
| C59 ,60 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | J |
| C59 ,60 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | S |
| C61 -64 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | J |
| C61 -64 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | S |
| C65 -68 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C65 -68 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C69 -72 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C73 -76 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C73 -76 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C79 ,80 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C79 ,80 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C81 ,82 | | | CF92FV1H104J | MF 0.10UF J | | |
| C83 ,84 | | | CF92FV1H473J | MF 0.047UF J | | |
| C85 ,86 | | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C87 ,88 | | | CQ92FM1H561J | MYLAR 560PF J | | |
| C89 ,90 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | J |
| C89 ,90 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | S |

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⚠ indicates safety critical components.

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NO.7

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti- nation 仕向 | Re- marks 備考 |
|---|---|---|---|---|---|---|
| C91 ,92 | | | CE04HW1H2R2M | NP-ELEC 2.2UF 50WV | | J |
| C91 ,92 | | | CE04HW1H2R2M | NP-ELEC 2.2UF 50WV | | S |
| C93 ,94 | | | CF92FV1H564J | MF 0.56UF J | | |
| C95 ,96 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C95 ,96 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C97 ,98 | | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C99 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C99 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C100 | | | C90-3504-05 | ALMINIUM ELECTROLYTIC C. | | |
| C103 | | | CK45FB1H102K | CERAMIC 1000PF K | MXY | |
| C104 | | | C91-0721-05 | CERAMIC 10PF J | MXY | |
| C105 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | MXY | J |
| C105 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | MXY | S |
| C106 | | | C90-3253-05 | ELECTRO 1UF 50WV | MXY | |
| C107 | | | C91-0749-05 | CERAMIC 220PF K | MXY | |
| C108 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | MXY | |
| C109,110 | | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C121,122 | | | CF92FV1H104J | MF 0.10UF J | | |
| C123,124 | | * | C90-3309-05 | ALMINIUM ELECTROLYTIC C. | | |
| C125-128 | | | CF92FV1H104J | MF 0.10UF J | | |
| C129,130 | | | C90-3281-05 | ELECTRO 100UF 16WV | | |
| C131,132 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C131,132 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C133,134 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | J |
| C133,134 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | S |
| C135 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C135 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C136 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |
| C136 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C137-140 | | | CE04KW1E221M | ELECTRO 220UF 25WV | | J |
| C137-140 | | | CE04LW1E221M | ELECTRO 220UF 25WV | | S |
| C141 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | J |
| C141 | | | CE04LW1H100M | ELECTRO 10UF 50WV | | S |
| C142 | | | CF92FV1H104J | MF 0.10UF J | | |
| C143 | | | CE04KW1C102M | ELECTRO 1000UF 16WV | | J |
| C143 | | | CE04LW1C102M | ELECTRO 1000UF 16WV | | S |
| C144,145 | | | CF92FV1H104J | MF 0.10UF J | | |
| C146 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | J |
| C146 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | S |
| C147 | | | CE04KW1E221M | ELECTRO 220UF 25WV | | J |
| C147 | | | CE04LW1E221M | ELECTRO 220UF 25WV | | S |
| C148 | | | CE04KW1V100M | ELECTRO 10UF 35WV | | J |
| C148 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | S |
| C149,150 | | | CE04HW1H101M | NP-ELEC 100UF 50WV | | J |
| C149,150 | | | CE04HW1H101M | NP-ELEC 100UF 50WV | | S |
| C151 | | | CF92FV1H104J | MF 0.10UF J | | |
| C152 | | | CE04HW1H4R7M | NP-ELEC 4.7UF 50WV | | |
| C153,154 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C155 | | | CE04KW1A331M | ELECTRO 330UF 10WV | | J |
| C155 | | | CE04LW1A331M | ELECTRO 330UF 10WV | | S |
| C156 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | J |
| C156 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | S |
| C157 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | J |
| C157 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | S |
| C158,159 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |

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# PARTS LIST

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NO.8

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| C158,159 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C160 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | J |
| C160 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | S |
| C162 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | J |
| C162 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | S |
| C163,164 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | J |
| C163,164 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | S |
| C165 | | | CE04KW1A331M | ELECTRO 330UF 10WV | | J |
| C165 | | | CE04LW1A331M | ELECTRO 330UF 10WV | | S |
| C166 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C167 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C168,169 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |
| C168,169 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C170 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C171,172 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | J |
| C171,172 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | S |
| C173,174 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |
| C173,174 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C175 | | | CE04DW1C471M | ELECTRO 470UF 16WV | | J |
| C175 | | | CE04EW1C471M | ELECTRO 470UF 16WV | | S |
| C176 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | J |
| C176 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | S |
| C178 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C179 | | | C90-3504-05 | ALMINIUM ELECTROLYTIC C. | | |
| C181 | | | C91-0769-05 | CERAMIC 0.01UF K | | |
| C182-185 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | J |
| C182-185 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | S |
| C186 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C187,188 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | J |
| C187,188 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | S |
| C190 | | | CF92FV1H104J | MF 0.10UF J | | |
| C191-193 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C200 | | * | C91-1240-05 | CERAMIC 16PF J | | |
| C201,202 | | * | C91-1241-05 | CERAMIC 20PF J | | |
| C203 | | * | C91-1240-05 | CERAMIC 16PF J | | |
| C204,205 | | | C90-3505-05 | ALMINIUM ELECTROLYTIC C. | | |
| C206-208 | | | C91-0769-05 | CERAMIC 0.01UF K | | |
| C209 | | | C90-1827-05 | BACKUP 0.047F 5.5WV | | |
| C210 | | | C90-3503-05 | ALMINIUM ELECTROLYTIC C. | | |
| C211 | | | C91-0769-05 | CERAMIC 0.01UF K | | |
| J1 | | | E58-0006-05 | RECTANGULAR RECEPTACLE OUTSIDE | | |
| J2 | | | E63-0095-05 | PHONO JACK AUX INPUT | | |
| J3 | | | E11-0220-05 | MINIATURE PHONE JACK MIC | MXY | |
| X1 | | | L77-1176-05 | CRYSTAL RESONATOR 4.1943MHz | | |
| CP1 | | | R90-0482-05 | MULTI-COMP 100KX4 J 1/6W | | |
| CP2 | | | R90-0500-05 | MULTI-COMP 100KX6 J 1/4W | | |
| CP3 | | | R90-0482-05 | MULTI-COMP 100KX4 J 1/6W | | |
| R149 | | | RS14KB3D331J | FL-PROOF RS 330 J 2W | | |
| R150 | | | RS14KB3D681J | FL-PROOF RS 680 J 2W | | |
| R157 | | | RS14KB3D681J | FL-PROOF RS 680 J 2W | | |
| R158 | | | RS14KB3D390J | FL-PROOF RS 39 J 2W | | |
| R161-163 | | | RS14KB3D390J | FL-PROOF RS 39 J 2W | | |
| R167 | | | RS14KB3D682JTE | FL-PROOF RS 6.8K J 2W | | |
| R185 | | | RD14NB2E222J | RD 2.2K J 1/4W | | |

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NO.9

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Desti-nation 仕向 | Re-marks 備考 |
|---|---|---|---|---|---|---|
| R186 | | | RD14NB2E8R2J | RD 8.2 J 1/4W | | |
| R187 | | | RD14NB2E220J | RD 22 J 1/4W | | |
| R188 | | | RD14NB2E8R2J | RD 8.2 J 1/4W | | |
| R189 | | | RD14NB2E220J | RD 22 J 1/4W | | |
| R190 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| R191,192 | | | RD14NB2E4R7J | RD 4.7 J 1/4W | | |
| R193 | | | RD14NB2E150J | RD 15 J 1/4W | MXY | |
| R194-196 | | | RD14NB2E4R7J | RD 4.7 J 1/4W | | |
| R199,200 | | | RD14NB2E4R7J | RD 4.7 J 1/4W | | |
| R201 | | | RS14KB3A4R7J | FL-PROOF RS 4.7 J 1W | | |
| R205-210 | | | RD14NB2E4R7J | RD 4.7 J 1/4W | | |
| R211 | | | RD14NB2E220J | RD 22 J 1/4W | | |
| R212 | | | RD14NB2E4R7J | RD 4.7 J 1/4W | | |
| R223 | | | RS14KB3D681J | FL-PROOF RS 680 J 2W | | |
| VR1 | | | R29-5050-05 | VARIABLE RESISTRO VOLUME | | |
| VR2 | | | R05-5058-05 | POTENTIOMETER BALANCE | | |
| VR3 | | | R11-9024-05 | POTENTIOMETER N.B CIRCUIT | | |
| VR5 | | | R10-5068-05 | POTENTIOMETER MIC MIXING | MXY | |
| VR6 | | | R10-5069-05 | POTENTIOMETER DUAL SOUND | | |
| S1 -14 | | | S40-1064-05 | PUSH SWITCH KEY BOARD | | |
| D1 ,2 | | | S5688B | DIODE | | |
| D1 ,2 | | | 1SR139-100 | DIODE | | |
| D3 ,4 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D3 ,4 | | | RD8.2ES(B2) | ZENER DIODE | | |
| D6 -10 | | | S5688B | DIODE | | |
| D6 -10 | | | 1SR139-100 | DIODE | | |
| D11 -16 | | | HSS104A | DIODE | | |
| D11 -16 | | | 1SS131 | DIODE | | |
| D17 | | | HZS5.1N(B2) | ZENER DIODE | | |
| D17 | | | RD5.1ES(B2) | ZENER DIODE | | |
| D18 | | | HZS11N(B2) | ZENER DIODE | MXY | |
| D18 | | | RD11ES(B2) | ZENER DIODE | MXY | |
| D19 | | | S5688B | DIODE | | |
| D19 | | | 1SR139-100 | DIODE | | |
| D20 -25 | | | HSS104A | DIODE | | |
| D20 -25 | | | 1SS131 | DIODE | | |
| D26 | | | HZS3.9N(B2) | ZENER DIODE | | |
| D26 | | | RD3.9ES(B2) | ZENER DIODE | | |
| D27 | | | HZS3.3N(B2) | ZENER DIODE | | |
| D27 | | | RD3.3ES(B2) | ZENER DIODE | | |
| D29 ,30 | | | HSS104A | DIODE | MXY | |
| D29 ,30 | | | 1SS131 | DIODE | MXY | |
| D31 | | | S5688B | DIODE | | |
| D31 | | | 1SR139-100 | DIODE | | |
| D32 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D32 | | | RD8.2ES(B2) | ZENER DIODE | | |
| D33 | | | HZS13N(B2) | ZENER DIODE | | |
| D33 | | | RD13ES(B2) | ZENER DIODE | | |
| D34 | | | HZS15N(B) | ZENER DIODE | | |
| D34 | | | RD15ES(B) | ZENER DIODE | | |
| D35 -38 | | | HSS104A | DIODE | | |
| D35 -38 | | | 1SS131 | DIODE | | |
| D40 -42 | | | MA177 | DIODE | | |
| D100 | | | HSS104A | DIODE | KPXTE | |

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# C-B5/L

# PARTS LIST

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NO.10

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| D100 | | | 1SS131 | DIODE | KPXTE | |
| D100,101 | | | HSS104A | DIODE | MY | |
| D100,101 | | | 1SS131 | DIODE | MY | |
| D102-115 | | | HSS104A | DIODE | TE | S |
| D102-115 | | | 1SS131 | DIODE | TE | S |
| D103-114 | | | HSS104A | DIODE | KPMY | |
| D103-114 | | | 1SS131 | DIODE | KPMY | |
| D103-115 | | | HSS104A | DIODE | X | |
| D103-115 | | | 1SS131 | DIODE | X | |
| ED1 | | | FIP9DM6R | INDICATOR TUBE | | |
| IC1 | | | TC9215P | IC(ANALOG SWITCH X 6) | | |
| IC2 | | | NJM4565D-D | IC(OP AMP X2) | | |
| IC2 | | | XRA15218-DX | IC(OP AMP X2) | | |
| IC3 | | | TC9273N-003 | CUSTOM IC | | |
| IC4 | | | NJM4565D-D | IC(OP AMP X2) | | |
| IC4 | | | XRA15218-DX | IC(OP AMP X2) | | |
| IC5 | | | CXA1642P | IC(KARAOKE VOCAL CANCEL) | MXY | |
| IC6 | | | TC4053BP | IC(3-INPUT 2CH MPX/DE-MPX) | | |
| IC6 | | | XRU4053B | IC(ANALOG MULTIPLEXER) | | |
| IC7 ,8 | | | NJM4565D-D | IC(OP AMP X2) | | |
| IC7 ,8 | | | XRA15218-DX | IC(OP AMP X2) | | |
| IC9 | | | TDA3810 | IC(PSEUDO STEREO CIRCUIT) | | |
| IC10 | | | STK301-090 | CUSTOM IC | | |
| IC11,12 | | | NJM4565D-D | IC(OP AMP X2) | | |
| IC11,12 | | | XRA15218-DX | IC(OP AMP X2) | | |
| IC13 | | | TA8409S | IC(MOTOR CONTROL) | | |
| IC14 | | | NJM4565D-D | IC(OP AMP X2) | | |
| IC14 | | | XRA15218-DX | IC(OP AMP X2) | | |
| IC15 | | | NJM4558D-A | IC(OP AMP X2) | | |
| IC16,17 | | | NJM4565D-D | IC(OP AMP X2) | MXY | |
| IC16,17 | | | XRA15218-DX | IC(OP AMP X2) | MXY | |
| IC17 | | | NJM4565D-D | IC(OP AMP X2) | KPTE | |
| IC17 | | | XRA15218-DX | IC(OP AMP X2) | KPTE | |
| IC18 | | | AN780575F | IC(VOLTAGE REGULATOR/+5.75V) | | |
| IC19 | | | TA7812S | IC(VOLTAGE REGULATOR/ +12V) | | |
| IC19 | | | UPC7812AHF | IC(VOLTAGE REGULATOR/ +12V) | | |
| IC20 | | | TA79012S | IC(VOLTAGE REGULATOR/ -12V) | | |
| IC20 | | | UPC7912HF | IC(VOLTAGE REGULATOR/ -12V) | | |
| IC21 | | | TA7812S | IC(VOLTAGE REGULATOR/ +12V) | | |
| IC21 | | | UPC7812AHF | IC(VOLTAGE REGULATOR/ +12V) | | |
| IC50 | | | CXP50116-532Q | IC(4BIT MICROPROCESSOR) | | |
| IC51 | | | MN1381-R(TA) | IC(VOLTAGE DETECT) | | |
| IC51 | | | S-80740AL | IC(VOLTAGE DETECTOR) | | |
| Q1 | | | 2SC1740S(Q,R) | TRANSISTOR | | S |
| Q1 | | | 2SC2458(Y,GR) | TRANSISTOR | | J |
| Q1 | | | 2SC2785(F,E) | TRANSISTOR | | S |
| Q1 | | | 2SC3311A(Q,R) | TRANSISTOR | | J |
| Q2 | | | 2SA1048(Y,GR) | TRANSISTOR | | J |
| Q2 | | | 2SA1175(F,E) | TRANSISTOR | | S |
| Q2 | | | 2SA1309A(Q,R) | TRANSISTOR | | J |
| Q2 | | | 2SA933S(Q,R) | TRANSISTOR | | S |
| Q3 ,4 | | | 2SC2878(B) | TRANSISTOR | | |
| Q5 ,6 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q7 | | | 2SC3940A(R,S) | TRANSISTOR | | |
| Q8 | | | 2SA1534A(R,S) | TRANSISTOR | | |

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NO.11

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名／規格 | Destination 仕向 | Remarks 備考 |
|---|---|---|---|---|---|---|
| Q10 | | | 2SA1534A(R,S) | TRANSISTOR | | |
| Q11 | | | DTC124ES | DIGITAL TRANSISTOR | | |
| Q11 | | | UN4212 | DIGITAL TRANSISTOR | | |
| Q50 | | | 2SA1048(Y,GR) | TRANSISTOR | MY | J |
| Q50 | | | 2SA1175(F,E) | TRANSISTOR | MY | S |
| Q50 | | | 2SA1309A(Q,R) | TRANSISTOR | MY | J |
| Q50 | | | 2SA933S(Q,R) | TRANSISTOR | MY | S |
| Q51 | | | 2SC4038(Q,R) | TRANSISTOR | | |
| A1 | | | W02-1153-05 | ELECTRIC CIRCUIT MODULE | | |

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# C-B5/L

## SPECIFICATIONS

### (C-B5)

**FM Tuner section**

| | |
|---|---|
| Tuning frequency range | 87.5 MHz ~ 108 MHz |
| Sensitivity (IHF) | 13.2 dBf (1.2 μV at 75 Ω) |
| Signal to noise ratio at 1 kHz | |
| MONO | 75 dB (65 dBf input) |
| STEREO | 68 dB (65 dBf input) |
| Selectivity (IHF ± 400 kHz) | 50 dB |
| Stereo separation (IHF at 1 kHz) | 40 dB |
| Frequency response | 30 Hz ~ 15 kHz + 0.5 dB, – 3 dB |

**AM Tuner section**

| | |
|---|---|
| Tuning frequency range | 530 kHz ~ 1,700 kHz |
| Usable sensitivity | 12 μV / (500 μV / m) |
| Signal to noise ratio | 48 dB |

**Pre Amplifier section**

| | |
|---|---|
| Input sensitivity / Impedance | |
| AUX | 200 mV / 47 kΩ |
| N.B. circuit | + 12dB (max.) (60 Hz) |

**[General]**

| | |
|---|---|
| Dimensions | W: 270 mm (10-5 / 8″)<br>H: 85 mm (3-3 / 8″)<br>D: 279 mm (11″) |
| Weight (net) | 2.0 kg (4.4 lb) |

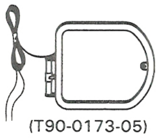
Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans preavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

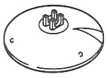
### Accessories

- AM loop antenna ................ 1



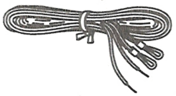
(T90-0173-05)
(T90-0174-05)

- Loop antenna stand ........... 1

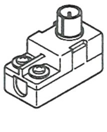


(J19-2815-04)

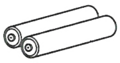
- FM indoor antenna ......... 1
(T90-0175-05):S
(T90-0176-05):J



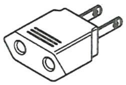
- Antenna adaptor
(75Ω / 300Ω) .................. 1
(For U.K. and Europe)
(T90-0185-05)



- Batteries(R03 / AAA) ........... 2

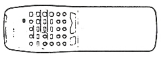


- AC plug adaptor .................. 1
(Except for some areas)
(E03-0115-05)



For the unit with a European AC plug in areas other than Europe.

- Remote control unit ....... 1



(X94-1050-51)
(F07-0721-23):Battery cover

•Cord with connector
.............................. 1

Speaker cords are packed with the speakers. All other accessories are packed with the poweramplifier unit.

### (C-B5L)

**FM Tuner section**

| | |
|---|---|
| Tuning frequency range | 87.5 MHz ~ 108 MHz |
| Sensitivity (DIN at 75 Ω) | |
| MONO | 1.0μV / 11.2 dBf |
| Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input) | |
| MONO | 65 dB |
| STEREO | 58 dB |
| Selectivity (DIN ± 300 kHz) | 64 dB |
| Stereo separation (DIN at 1 kHz) | 40 dB |
| Frequency response | 30 Hz ~ 15 kHz + 0.5 dB, – 3 dB |

**MW Tuner section**

| | |
|---|---|
| Tuning frequency range | 531 kHz ~ 1,602 kHz |
| Usable sensitivity | 12 μV / (500 μV / m) |
| Signal to noise ratio | 46 dB |

**LW Tuner section**

| | |
|---|---|
| Tuning frequency range | 153 kHz ~ 279 kHz |
| Usable sensitivity | 22 μV |
| Signal to noise ratio | 45 dB |

**Pre Amplifier section**

| | |
|---|---|
| Input sensitivity / Impedance | |
| AUX | 200 mV / 47 kΩ |
| N.B. circuit | + 12 dB (max.) (60 Hz) |

**[General]**

| | |
|---|---|
| Dimensions | W: 270 mm (10-5 / 8″)<br>H: 85 mm (3-3 / 8″)<br>D: 279 mm (11″) |
| Weight (net) | 2.0 kg (4.4 lb) |

**Note:**

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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